

MINES BRANCH
GEOLOGICAL SURVEY

DALY RIVER EXPLORATION LICENCE 356.

REPORT TO MINES DEPARTMENT FOR QUARTER
ENDED 29TH NOVEMBER, 1974.

11.01/P17.

R.Cotton.

MINES BRANCH
GEOLOGICAL SURVEY

OPEN FILE

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1. Introduction.

At the J.V. meeting of 25.6.1974, it was decided to drill two deep diamond drill holes to test the grade and continuity at depth of the two mineralised lenses indicated by earlier drilling in the Copper Mine area.

During October, holes A18 and A19 were drilling, with a total footage of 1938 feet (refer Plates 1, 2, and 3).

Diamond drill hole A18 was drilled to test the southern extension of the Copper Mine mineralisation into E.L.356.

2. Diamond drilling.

2.1. DDH A18.

Collar location 18320S, 2820W (feet)

Declination - 75° , azimuth 280° M

Final depth 1002 ft.

This hole penetrated an alternating sequence of siltstone and acid tuff (Refer Plate 2, Appendix 1). Mineralisation was confined to two narrow intervals, 309 - 319 ft. of 0.35% Cu, 1.02% Zn and 571 - 581 ft. of 0.31% Cu, 0.46% Zn.

In the primary target position, a zone of talc carbonate alteration occurred over a core length of 43 feet, but no sulphide mineralisation was present.

2.2. DDH A19.

Collar location 17250S, 2750W (feet)

Declination - 72° , azimuth 280° M.

Final depth 936 ft.

As in A18, alternating siltstone and acid tuff were intersected

for the full length of the hole (refer Plate 3, Appendix 2). Three low grade mineralised intersections were encountered 274 - 284 ft. of 0.15% Cu, 0.80% Zn 351 - 371 ft of 0.85% Cu, 0.11% Zn, 810 - 815 ft. of 1.20% Cu, 0.50% Zn. The mineralisation in this hole occurred as bedded, banded and fracture filling, apparently syngenetic sulphides with no visible alteration.

3. Conclusions.

Results from both holes were disappointing, neither approaching the anticipated grade of 3%Cu over a true width of 2 metres. In the case of A18 no mineralisation was detected in the target area. As a result, the possibility of the two mineralised lenses containing an aggregate of 1.5MT at 3%Cu is severely reduced.

4. Recommendations.

A re-assessment of all data on the Copper Mine area is being carried out, and based on this, recommendations for future work if any, will be made at the next Joint Venture Meeting.

5. Expenditure.

Expenditure during the quarter was as follows:

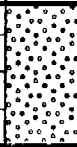
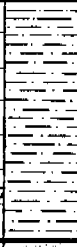
September, 1974	:	\$ 2549
October, 1974	:	20697
November, 1974	:	476
Total	:	\$ 23712

LE NICKEL (AUSTRALIA) EXPLORATION PTY. LTD.

DIAMOND DRILL LOG

Project No 1100 Prospect 1101 Area Name DALY RIVER Tenement No E.L. 356
 Hole Co-ordinates 18320 S/2820 W Bearing 280°M Declination -75° Final Depth 1002 FT.
 Drilled by LONGYEAR Type of drill L/Y 38 Date commenced 4.10.74 Date completed 17.10.74 Logged by J. G. Woodland

HOLE No A18
 Sheet No 1/5

Depth		Interval	Recovery	Recovery %	Size core casing	Hole Survey Data	DESCRIPTION	Graphic log	ASSAY DATA						
from	to								from	to	Sample No	ELEMENTS P.P.M.			
0.0	15.0	15.0	NIL	NIL	none		NO CORE Clay and float material.								
15.0	22.0	7.0	0.7	10	HQ		QUARTZ Reddish, iron stained quartz rubble and minor white quartz. Much core lost - probably clayey material. Mineralisation: Nil apparent								
22.0	62.3	40.3	15.0	37			SILTSTONE Grey-green, f.g. highly to moderately weathered chloritic siltstone, decomposed green clay to 45ft. Bedding at 15° to core axis. Joints at 15-30° to core axis, coatings of clay, limonite. Quartz veins at approximately 39.5-40.0, 55.0, 56.3, 57.5, 64.0ft; highly broken core 22.0-55.5, 56.5-61.0ft. Mineralisation: Nil.								
62.3	116.7	54.4	44.1	81		65ft -74° 100ft -74°	ACID TUFF Grey-green, f.g. slightly weathered to fresh, massive, minor interbedded siltstone. Bedding at 15-18° to core axis. Joints at 15-25°, 50-60° occasionally parallel to core axis, coatings of limonite. Occasional barren quartz veinlets. Mineralisation: Nil.								
116.7	125.7	9.0	9.0	100			SILTSTONE Grey-green, f.g. fresh, occasionally laminated chloritic siltstone. Bedding at 15-18° to core axis. Joints at 20-30° to core axis, coatings of limonite. Mineralisation: Nil.								
125.7	156.6	30.9	30.4	98			ACID TUFF Grey-green, f.g. fresh, massive, minor interbedded siltstone. Light grey, more acidic 140-147ft. Bedding at 18-20° to core axis. Joints at 20°, 50-60° to core axis, coatings of limonite. Occasional narrow, random, barren quartz veins. Mineralisation: Nil.								
156.6	191.9	35.3	35.3	100			SILTSTONE As for 116.7-125.7ft. Joints at 20-30°, 60-70° to core axis, often slickensided, coatings of limonite.								

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DIAMOND DRILL LOG

Project No 1100 Prospect 1101 Area Name DALY RIVER Tenement No EL 356
 Hole Co-ordinates 18320S/2820W Bearing 280°M Declination -75° Final Depth 100.2 Ft.
 Drilled by LONGYEAR Type of drill L/Y 38 Date commenced 4.10.74 Date completed 17.10.74 Logged by J.G. Woodland

HOLE No. A18Sheet No 2/5

Depth from	to	Interval	Recoveried	Recovery %	Size core	Hole Survey Data	DESCRIPTION	Graphic log	ASSAY DATA p.p.m.					
									Depth from	to	Sample No	ELEMENTS		
					HQ		quartz and occasionally pyrite. Broken 156.6-157.0, 164.0-169.0 ft. Quartz vein, broken, limonite stained 156.7-156.9 ft. Lower contact at 20° to core axis. Mineralisation: Nil					Cu	Pb	Zn
191.9	223.0	31.1	31.1	100	NQ	197 ft 200 ft -73°	ACID TUFF As for 125.7-156.6 ft, minor inter- bedded siltstone. Joints at 30°, 45°, 75° to core axis, often slickensided and quartz coated, otherwise clean. Mineralisation: Nil							
223.0	232.1	9.1	9.1	100			SILTSTONE As for 116.7-125.7 ft. Minor tuffaceous material. Contacts gradational. Joints at 20-30°, some with slickensides, occasional minor pyrite coatings. Occasional minor quartz veinlets. Mineralisation: Nil							
232.1	319.0	86.9	86.9	100			ACID TUFF Grey, f.g. fresh, massive, minor inter- bedded siltstone. Bedding at 15-20° to core axis. Joints at 20-30°, 60-70°, occasionally 80° to core axis, steep joints with slickensides and quartz coatings. Talc-carbonate veins at 285.0, 314.4-315.0 ft. Mineralisation: Trace - occasionally slight roughly bedded and banded pyrite, chalcopyrite, sphalerite.		297.0	299.0	3382A	700	34	230
						305 ft 274 ft -67°			305.0	306.0	3383A	1500	30	310
									306.0	309.0	3384A	58	22	430
									309.0	314.0	3385A	1600	38	1.25%
									314.0	319.0	3386A	0.54%	48	0.80%
319.0	327.0	8.0	8.0	100			SILTSTONE/TALC CARBONATE Green-grey, f.g. soft siltstone, sheared and replaced by talc- carbonate. Contact angles approximately 15° to core axis. Mineralisation: Trace banded chalcopyrite, sphalerite.		319.0	323.0	3387A	1350	64	510
									323.0	327.0	3388A	96	38	180
327.0	343.7	16.7	16.7	100			SILTSTONE Grey, f.g. massive, somewhat talcose, minor interbedded acid tuff. Bedding at 15-18° to core axis. Joints at 30-40°, 60-70° to core axis. Minor carbonate material 337.5-339.0 ft. Mineralisation: Trace - slight banded sulphides		327.0	329.0	3389A	52	34	230

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DIAMOND DRILL LOG

Project No 1100 Prospect 1101 Area Name DALY RIVER Tenement No E.L. 356
 Hole Co-ordinates 183205/2820W Bearing 280°M Declination -75° Final Depth 1002 ft.
 Drilled by LONGYEAR Type of drill L/Y 38 Date commenced 4.10.74 Date completed 17.10.74 Logged by J.G. Woodland

HOLE No A18
 Sheet No 3/5

Depth from to	Interval	Recovered	Recovery %	Size core casing	Hole Survey Data	DESCRIPTION	Graphic log	ASSAY DATA P.P.M.					
								Depth from to	Sample No	ELEMENTS			
343.7	369.0	25.3	25.3	100	NQ	ACID TUFF As for 232.1-319.0 ft. Minor shearing, talc-carbonate replacement 360-361, 362.5-364, 365-366, 367-369 ft. Mineralisation: Nil.				Cu	Pb	Zn	
369.0	381.9	12.9	12.9	100		SILTSTONE Grey, v.f.g., massive siltstone, minor interbedded acid tuff. Bedding contorted, ranging from 0-25° to core axis. Joints at 30-40°, 70-80° to core axis. Mineralisation: Nil.							
381.9	440.1	58.2	58.2	100		ACID TUFF Grey, f-m.g., hard, massive, minor interbedded siltstone. Bedding at 25° to core axis. Joints at 30-40°, 70-80° to core axis. Carbonate vein 411.5-411.9 ft. Mineralisation: Trace banded, disseminated, fracture filling pyrite, chalcopyrite? sphalerite.		390.0 395.0	3390A	1400	44	210	
								395.0 400.0	3391A	510	30	800	
								417.0 422.0	3392A	250	34	1140	
								422.0 427.0	3393A	2100	150	4000	
440.1	451.0	10.9	10.9	100		SILTSTONE As for 369.0-381.9 ft. Broken due to low angle bedding and cleavage parallel to core axis. Mineralisation: Occasional trace pyrite on bedding planes and in fractures.							
451.0	560.5	109.5	108.8	99		ACID TUFF Grey, f.g., massive, minor interbedded siltstone. Bedding at 20° to core axis, increasing to approximately 30° with depth. Joints at 30°, 50-60° to core axis, with occasional slickensides. Talc-carbonate alteration 501.8-504.0, 509.6-510.6, 511.5-517.7, 522.3-523.0, 523.5-525.0, 544.1-547.2 ft. Mineralisation: Trace fracture filling and banded pyrite, chalcopyrite? sphalerite 461-501 ft. Trace pyrite, chalcopyrite in quartz stringers 542-544 ft.		461.0 462.0	3394A	210	26	220	
								466.0 468.0	3395A	1000	114	3400	
								476.0 477.0	3396A	650	22	170	
								482.5 483.5	3397A	4000	50	600	
								491.0 496.0	3398A	750	18	160	
								496.0 501.0	3399A	600	30	260	
								542.0 544.0	3400A	150	20	200	
560.5	636.8	76.3	76.3	100		SILTSTONE Green-black, f.g., massive siltstone, cherty? in parts, cherty looking from 600 ft on, minor interbedded acid tuff. Bedding at 25-30° to core axis.		562.5 565.5	0301A	600	44	260	
								567.5 571.0	0302A	100	50	620	
								571.0 576.0	0303A	0.52%	240	3000	

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DIAMOND DRILL LOG

Project No 1100 Prospect 1101 Area Name DALY RIVER Tenement No E.L. 356
 Hole Co-ordinates 18320S/2820W Bearing 280°M Declination -75° Final Depth 1002 FT.
 Drilled by LONGYEAR Type of drill L/Y 38 Date commenced 4-10-74 Date completed 17-10-74 Logged by J.G. Woodland

HOLE No. A18Sheet No. 4/5

Depth from	to	Interval	Recovery %	Size core casing	Hole Survey Data	DESCRIPTION	Graphic log	ASSAY DATA					
								Depth from	to	Sample No	ELEMENTS p.p.m.		
				NQ		Joints at 30-40°, 50-60° to core axis.					Cu	Pb	Zn
					600ft 284.5°M -57°	Talc-carbonate alteration 563.8-577.4, 575.5-576.5,		576.0	581.0	0304A	950	64	0.62%
						577.5-577.8, 579.0-579.8, 581.2-589.5, 635.5-636.3ft.		581.0	586.0	0305A	2200	50	1700
						Quartz vein 565.5-567.5 ft.		586.0	591.0	0306A	2200	44	680
						Mineralisation: Trace - slight banded and disseminated pyrite, chalcopyrite, ? sphalerite.							
636.8	791.4	154.6	154.0	99		ACID TUFF Gray, f.g., minor interbedded siltstone. Bedding at 30° to core axis, steepening to 45° from 710 ft on. Highly broken 636.8-704 ft.							
					700ft 285°M -55°	Random quartz stringers to 710ft. Joints 30-40°, 60- 70° to core axis, occasional coatings of pyrite.							
						Mineralisation: Occasional trace pyrite.							
791.4	861.4	70.0	67.9	97		TUFFACEOUS SILTSTONE Green-black f.g., fairly fine bedded, tuffaceous siltstone and minor interbedded acid tuff. Bedding at 45-47° to core axis. Joints at 40-50°, occasionally 70-80° to core axis.							
					800ft -45°	Talc-carbonate alteration 818-839, 842-852.1, 853.5- 861.4 ft. Quartz vein 818.3-818.9 ft.		823.0	828.0	0307A	16	34	150
						Mineralisation: Slight - moderate disseminated, brown, micaceous? material 837-848 ft.		837.0	840.0	0308A	50	30	240
								846.0	848.0	0309A	16	28	260
861.4	910.0	48.6	48.6	100		SILTSTONE Green-black f.g., minor interbedded acid tuff. Bedding at 45-48° to core axis. Joints at 45-60° to core axis.							
					900ft -38°	Mineralisation: Nil.							
910.0	922.9	12.9	12.9	100		ACID TUFF Green-black f.g., massive, minor interbedded siltstone. Bedding at 50° to core axis. Joints at 50-60° to core axis.							
						Mineralisation: Nil.							
922.9	946.5	23.6	23.6	100		LAMINATED SILTSTONE Grey-black f.g., laminated siltstone. Bedding at 50-55° to core axis.							

DIAMOND DRILL LOG

HOLE No. **A18**
Sheet No. **5/5**

Depth		Interval	Recoveries %	Size		Hole Survey Data	DESCRIPTION	Graphic log	ASSAY DATA				
from	to			core	casing				Depth from	to	Sample No.	ELEMENTS P.P.M.	
					NQ		Joints at 40-50° to core axis. Mineralisation: Nil.				Cu	Pb	Zn
946.5	1002.0	56.5	54.1	96			ACID TUFF Grey-black f.g., massive. Bedding at 45-47° to core axis. Joints at 60-70° to core axis. Mineralisation: Nil.						
END OF HOLE 1002 FT.													

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DIAMOND DRILL LOG

Project No. 1100 Prospect 1101 Area Name DALY RIVER Tenement No. E.L. 356
 Hole Co-ordinates 17250S/2750W Bearing 280°M Declination -72° Final Depth 936 ft.
 Drilled by LONGYEAR Type of drill L/Y 38 Date commenced 18-10-74 Date completed 27-10-74 Logged by J. G. Woodland

HOLE No. A19
 Sheet No. 1/3

Depth		Interval	Recovered	Recovery %	Size		Hole Survey Data	DESCRIPTION	Graphic log	ASSAY DATA						
from	to				core	casing				Depth from	to	Sample No	ELEMENTS p.p.m.			
0.0	14.0	14.0	NIL	NIL	FRAME			NO CORE Soil, weathered siltstone.					Cu	Pb	Zn	As
14.0	101.5	87.5	46.9	54	HQ			<u>SILTSTONE</u> Red-brown, micaceous, highly weathered, to green-grey, f.g., moderately weathered siltstone. Bedding at 30-35° to core axis. Joints at 30-40°, occasionally 70-80° to core axis. Quartz vein, 1" at 38 ft. Mineralisation: Nil.								
101.5	124.0	22.5	18.2	81				<u>ACID TUFF</u> Green-grey, f.g., slightly weathered to fresh, minor interbedded siltstone. Sheared, quartz laced to 113.5 ft, especially 108.5-109.5, 111.7-112.5 ft. Cavity, complete water loss 113.5-117.8 ft, approximately 25% core recovered, reddish highly weathered micaceous siltstone as for 14.0-101.5 ft. Mineralisation: Nil.								
124.0	132.5	8.5	8.5	100				<u>SILTSTONE</u> Green-black f.g., chloritic. Bedding at approximately 30-40° to core axis. Joints at 40-60° to core axis, limonite coatings. Sheared, brecciated, quartz laced 128.6-132.5 ft, especially 131.0-132.5 ft. Mineralisation: Nil.								
132.5	217.7	85.2	85.2	100		153 ft NQ -62°		<u>ACID TUFF</u> Green-grey, f.g., massive, minor interbedded siltstone. Bedding at 30-35° to core axis. Joints at 40-50°, 70-80°, occasionally sub-parallel, some slickensides, coatings of limonite. Sheared, quartz laced 132.5-141.5, 150-156 ft. Elsewhere, numerous random quartz veins, often at approximately 20° to core axis to 195 ft. Mineralisation: Nil.								
217.7	227.4	9.7	9.7	100		216 ft -61°		<u>SILTSTONE</u> Green-black f.g., minor interbedded acid tuff. Bedding at 30-35° to core axis. Joints at								

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DIAMOND DRILL LOG

Project No. 1100 Prospect 1101 Area Name DALY RIVER Tenement No. E.L. 356
 Hole Co-ordinates 17250 S/2750 W Bearing 280°M Declination -72° Final Depth 936 FT.
 Drilled by LONGYEAR Type of drill L/Y 38 Date commenced 18.10.74 Date completed 27.10.74 Logged by J.G. Woodland

HOLE No. A19

Sheet No. 2/3

Depth		Interval	Recovery	Size	Hole	DESCRIPTION	Graphic	ASSAY DATA							
from	to							%	core	casing	log	Depth	Sample	ELEMENTS P.P.m.	
								From	to	No		Cu	Pb	Zn	As
				NQ		40-50 ft. core axis, with slickensides. Mineralisation: Occasional trace pyrite on bedding planes.									
227.4	269.1	41.7	41.0	98		ACID TUFF As for 132.5-217.7 ft. Bedding at 30-32° to core axis. Joints at 40°, occasionally at 70° to core axis, occasional coatings of pyrite. Talcose? alteration 246.5-247.5, 249.0-250.3, 251.5-253.5, 255.0-269.1 ft. Occasional quartz and calcite veins, as at 251.6-251.8, 258.3, 268.8-269 ft. Broken, somewhat schistose 256.0-269.1 ft. Mineralisation: 3" section trace - slight bedded? chalcoppyrite at 246.5 ft. Trace banded pyrite, chalcoppyrite 267-269 ft.		246.0	248.0	0310A	2000	30	250		
269.1	290.0	20.9	18.4	88		SILTSTONE Grey-green, f.g., minor interbedded acid tuff. Bedding at 30-42° to core axis. Joints at 30-40°, 60-70° to core axis. Talcose? alteration 274.7-290.0 ft. Talc-carbonate brecciated zone 284.0-287.2 ft. Broken, somewhat schistose 278.1-284.0 ft. Mineralisation: Trace - slight disseminated, fracture filling and roughly bedded, chalcoppyrite, pyrite, sphalerite. 6" section calcite vein with slight? arsenopyrite 287.9-288.4 ft.		267.0	269.0	0311A	700	78	1800		
								269.0	274.0	0312A	390	50	1300		
								274.0	279.0	0313A	2050	200	0.56%		
								279.0	284.0	0314A	1000	86	1.05%		
								284.0	289.0	0315A	4000	190	1500	95	
290.0	414.5	124.5	122.7	99		ACID TUFF Grey-black, f.g., minor interbedded siltstone. Bedding at 30-36° to core axis. Joints at 30-40°, 60-70° to core axis, occasionally slickensided. Sub-parallel quartz vein 303.1-306.5 ft with occasional trace pyrite. Mineralisation: Slight fracture filling and roughly banded, bedded chalcoppyrite 341.0-378.0 ft. Apparently supergene.		341.0	346.0	0316A	0.55%	36	680		
					331A-59"			346.0	351.0	0317A	2350	32	560		
								351.0	356.0	0318A	0.80%	40	1000		
								356.0	361.0	0319A	0.65%	40	720		
								361.0	366.0	0320A	1.05%	40	940		
								366.0	371.0	0321A	0.90%	44	1600		
								371.0	376.0	0322A	4600	32	1000		

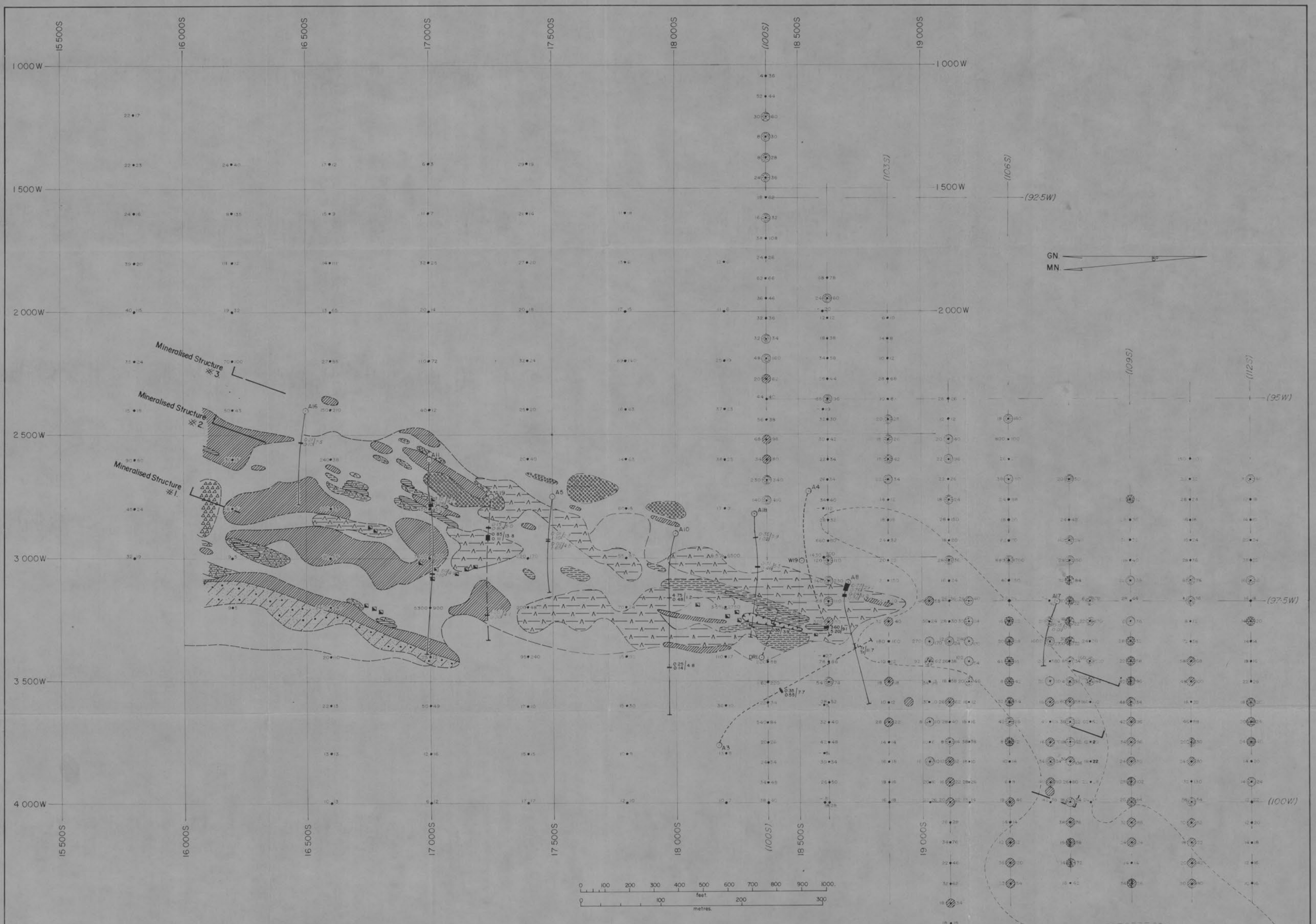
LE NICKEL (AUSTRALIA) EXPLORATION PTY. LTD.

DIAMOND DRILL LOG

Project No 1100 Prospect 1101 Area Name DALY RIVER Tenement No E.L. 356
 Hole Co-ordinates 17250S/2750W Bearing 280°M Declination -72° Final Depth 936 FT
 Drilled by LONGYEAR Type of drill L/Y 38 Date commenced 18.10.74 Date completed 27.10.74 Logged by J. G. Woodland

HOLE No A19
 Sheet No 3/3

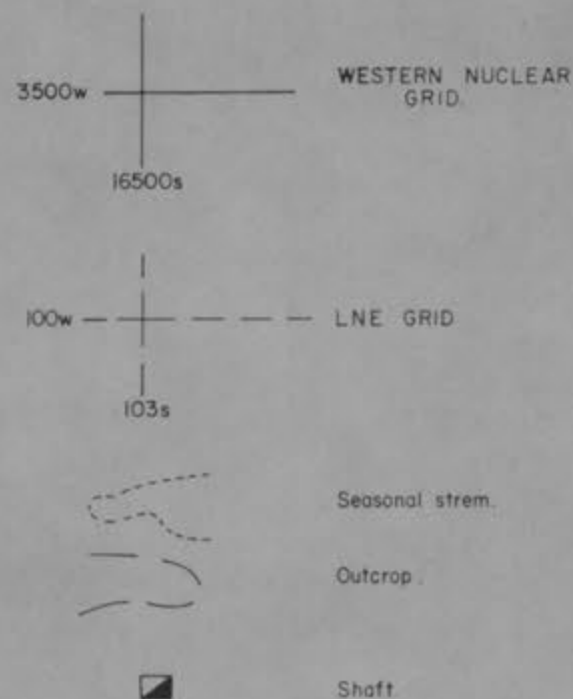
Depth						DESCRIPTION	Geologic log	ASSAY DATA						
from	to	Interval	Recovery %	Size core casing	Hole Survey Data			Depth		Sample No	ELEMENTS p.p.m.			
								from	to		Cu	Pb	Zn	As
414.5	440.5	26.0	25.7	99	NQ	TUFFACEOUS SILTSTONE Green-grey, f.g. tuffaceous siltstone. Bedding at 30-35° to core axis. Joints at 40-50° to core axis, occasional pyrite coatings. Mineralisation: Nil.		376.0	378.0	0323A	4900	30	800	
440.5	877.9	437.4	437.0	100		ACID TUFF Black-grey, f.g, massive. Agglomeratic 558-648, 737-772 ft with shards of siltstone and tuffaceous material to 5cm. Bedding at 45° to core axis, becoming 35-40° at 580 ft, steepening to approximately 60° at 800 ft. Joints at 40-50°, 70° to core axis, occasional coatings of pyrite. 1" vuggy quartz vein at 641.9 ft. 1/2" vein at 717.4 ft. Sub-parallel quartz vein 740.9-741.4 ft. Brecciated 776-797 ft, some talc-carbonate alteration 785-791 ft. Broken 782-809.5 ft. Mineralisation: Trace-slight roughly banded and fracture filling pyrite, chalcopyrite, sphalerite 805-830, 837-857 ft. Apparently syngenetic mineralisation- no alteration.		472.5	474.0	0324A	1100	52	0.60%	
					458 ft -54°			734.0	736.0	0325A	500	28	3400	
					540 ft -48°			790.0	795.0	0326A	2400	68	1600	
								795.0	800.0	0327A	210	32	780	
					648 ft -41°			805.0	810.0	0328A	1700	72	960	
								810.0	815.0	0329A	1.20%	260	0.50%	
								815.0	820.0	0330A	650	32	280	
					713 ft -37°			820.0	825.0	0331A	2000	50	620	
								825.0	830.0	0332A	0.60%	72	3100	
								837.0	842.0	0333A	560	36	1060	
					796 ft -35°			842.0	847.0	0334A	2300	30	0.80%	
								847.0	852.0	0335A	600	30	3500	
								852.0	857.0	0336A	600	44	1900	
877.9	936.0	58.1	53.6	92		SILTSTONE Grey, f.g., dense. Bedding at 50-55° to core axis. Joints at 60-70° to core axis. Talc-carbonate alteration and infilling of brecciated siltstone 883.7-885.9, 888.0-916.5, 926.9-935.0 ft. Mineralisation: Nil.								
END OF HOLE 936 FT.														



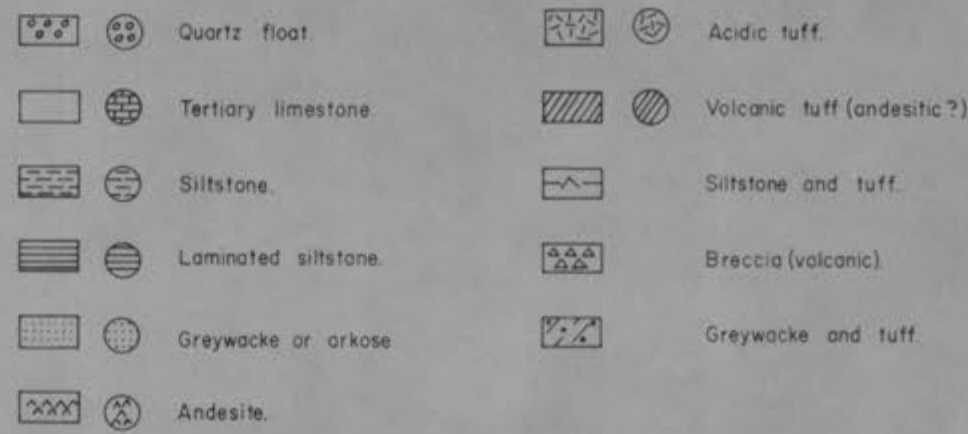
TOPOGRAPHY

AUGER SAMPLING

GEOLOGY



DIAMOND DRILLING



LE NICKEL (AUST.) EXPLORATION PTY. LTD.

DALY RIVER PROSPECT Composite Plan COPPER MINE AREA.

To accompany report by J. G. Woodland.

DRAWN: J. G. W. & C. McC. REF. No. 1101 /

PLATE I.

HOLE A18

AREA Daly River

COORDINATES { 18320 S
2820 W

DRILL L/Y 38
COMMENCING 4.10.74
TERMINATING 17.10.74

INCLINATION -75°
BEARING 280°m

DEPTH 1002 Ft.

OBJECTIVES To test the possible depth extensions of the Copper Mine lode.

SIZE

BIG SUBDIVISIONS

0.0 - 15.0	No core	0.0 - 15.0	15.0 Ft Tricone
15.0 - 22.0	Quartz rubble	15.0 - 197.0	197.0 Ft HQ
22.0 - 319.0	Alternating siltstone and acid tuff	197.0 - 1002.0	1002.0 Ft NQ
319.0 - 327.0	Siltstone / talc carbonate		
327.0 - 922.9	Alternating siltstone and acid tuff		
922.9 - 946.5	Laminated siltstone		
946.5 - 1002.0	Acid tuff.		

MINERALISATION CROSSED

CHARACTER	Acid tuff, talc carbonate alteration, bedded/banded sulphides	Siltstone/acid tuff/talc carbonate, bedded and disseminated sulphides
DEPTH AT THE ROOF	309.0 ft	571.0 ft
DEPTH AT THE FOOT WALL	319.0 ft	581.0 ft
WIDTH CROSSED	10.0 ft	10.0 ft
ACTUAL WIDTH	3.9 ft	5.3 ft
BALANCED GRADE	0.35% Cu 0.002% Pb 1.02% Zn	0.31% Cu 0.02% Pb 0.46% Zn

ANALYSED CORE

SAMPLING	Cu	Pb	Zn	ADDITIONAL COMMENTS
Interval (ft)				
297-299	700	34	230	Values in ppm unless otherwise indicated.
305-306	1500	30	310	
306-309	58	22	430	
309-314	1600	38	1.25%	
314-319	0.54%	48	0.80%	
319-323	1350	64	510	
323-327	96	38	180	
327-329	52	34	230	
390-395	1400	44	210	
345-400	510	30	800	
417-422	250	34	1400	
422-427	2100	150	4000	
461-462	210	26	220	
466-468	1000	114	3400	
476-477	650	22	170	
482.5-483.5	4000	50	600	
491-496	750	18	160	
496-501	600	30	260	
542-544	150	20	200	
562.5-565.5	600	44	260	
567.5-571	100	50	620	
571-576	0.52%	240	3000	
576-581	950	64	0.62%	
581-586	2200	50	1700	
586-591	2200	44	680	
823-828	16	34	150	
837-840	50	30	240	
846-848	16	28	260	

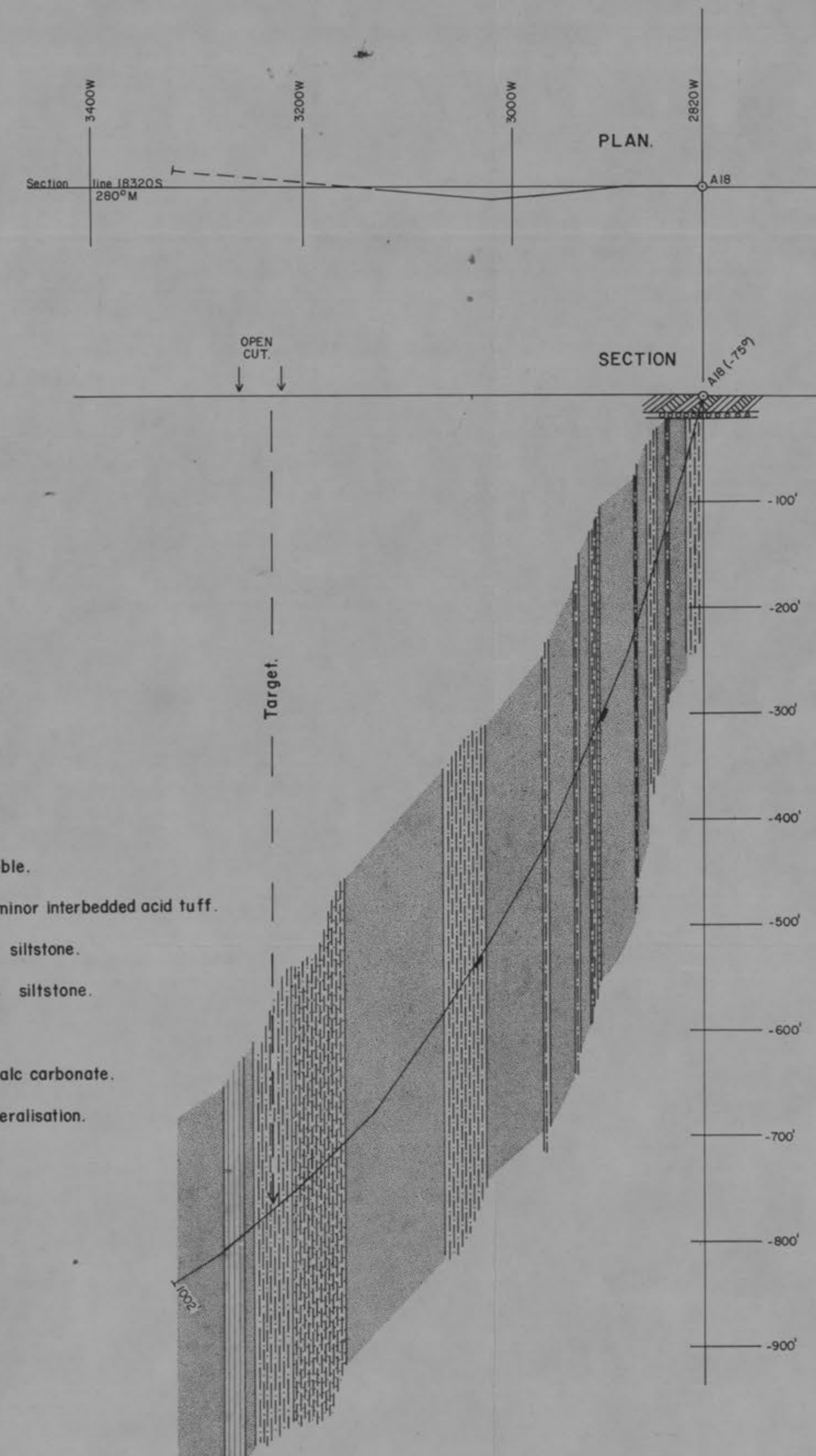
DETAILED LOG

Scale: 1" = 30 ft (1:600)

STRATIGRAPHY	DEPTH	LITHOLOGY	SAMPLING	CORE	DESCRIPTION	THIN SECTION
						DEPTH DESCRIPTION
	15.0				NO CORE Clay & float material.	
	22.0				QUARTZ Rubble and clay.	
	62.3				SILTSTONE Chloritic, weathered to moderately fresh.	
	116.7				ACID TUFF Grey-green, f.g. minor interbedded siltstone.	
	125.7				SILTSTONE Chloritic, occas. laminated.	
	156.6				ACID TUFF Minor interbedded siltstone	
	191.9				SILTSTONE As for 116.7-125.7 ft.	
	223.0				ACID TUFF Aq for 125.7-156.6 ft.	
	232.1				SILTSTONE As for 116.7-125.7 ft. m. tuff	
	319.0				ACID TUFF Grey, f.g. massive, minor interbedded siltstone. Talc-carbonate veins at 285, 314.4-315 ft.	
	327.0				SILTSTONE/TALC CARBONATE	
	343.7				SILTSTONE Somewhat talcose, minor interbedded acid tuff.	
	360.0				ACID TUFF As for 232.1-319 ft. Minor shearing, talc carbonate replacement 360-361, 362.5-364, 365-366, 367-369 ft.	
	381.9				SILTSTONE Very f.g. contorted, m. tuff	
	440.1				ACID TUFF As for 232.1-319 ft.	
	481.0				SILTSTONE As for 369-381.9 ft.	
	560.5				ACID TUFF As for 232.1-319 ft. Talc carbonate alternating 501.8-504, 509.6-510.6, 511.5-517.7, 522.3-523, 523.5-525, 544.1-547.2 ft.	
	636.8				SILTSTONE Green-black, f.g. ? chloritic in parts, cherty looking 600 ft on, minor interbedded acid tuff. Talc carbonate alteration 563.6-577.4, 575.5-576.5, 577.5-577.8, 579-579.8, 581.2-589.5, 635.5-636.3 ft.	
					ACID TUFF As for 232.1-319 ft.	

EXPLANATORY SECTION

Scale: 1" = 100' (1:1200)



HOLE A19

AREA DALY RIVER

COORDINATES

17250 S
2750 WINCLINATION
BEARING- 72°
280°M

DEPTH 936 ft.

OBJECTIVES

To test the possible depth extensions
of the Copper Mine lode.

BIG SUBDIVISIONS

0.0 - 14.0 No Core
14.0 - 414.5 Alternating siltstone and acid tuff
414.5 - 440.5 Tuffaceous siltstone
440.5 - 877.9 Acid tuff
877.9 - 936.0 Siltstone

SIZE

0.0 - 14.0 ft Tricone
14.0 - 133.0 ft HQ
133.0 - 936.0 ft HQ

MINERALISATION CROSSED

CHARACTER	Fracture filling, sulphide in acid	roughly banded and tuff / siltstone.	bedded
DEPTH AT THE ROOF	274.0	351.0	810.0
DEPTH AT THE FOOT WALL	284.0	371.0	815.0
WIDTH CROSSED	10.0	20.0	5.0
ACTUAL WIDTH	3.0 ft	13.8 ft	4.1 ft
BALANCED GRADE	0.15% Cu 0.01% Pb 0.80% Zn	0.85% Cu 0.004% Pb 0.11% Zn	1.20% Cu 0.03% Pb 0.50% Zn

ANALYSED CORE

SAMPLING					ADDITIONAL COMMENTS
Interval (ft)	Cu	Pb	Zn	As	
246-248	2000	30	250		Results in ppm unless otherwise indicated.
267-269	700	78	1800		
269-274	390	50	1300		
274-279	2050	200	0.56%		
279-284	1000	86	1.05%		
284-289	4000	190	1300	95	
341-346	0.55%	36	680		
346-351	2350	32	560		
351-356	0.80%	40	1000		
356-361	0.65%	40	720		
361-366	1.05%	40	940		
366-371	0.90%	44	1600		
371-376	4600	32	1000		
376-378	4900	30	800		
472.5-474	1100	52	0.60%		
734-736	500	28	3400		
790-793	2400	68	1600		
795-800	210	32	780		
805-810	1700	72	960		
810-815	1.20%	260	0.50%		
815-820	650	32	280		
820-825	2000	50	620		
825-830	0.60%	72	3100		
837-842	560	36	1060		
842-847	2300	30	0.80%		
847-852	600	30	3500		
852-857	600	44	1900		

DETAILED LOG

Scale: 1" = 50 ft (1:600)

STRATIGRAPHY	DEPTH	LITHOLOGY	SAMPLING	CORE	DESCRIPTION	THIN SECTION	
						DEPTH	DESCRIPTION
	14.0				NO CORE Soil, weathered siltstone.		
					SILTSTONE Micaceous, f.g. siltstone.		
	101.5				ACID TUFF Grey-green, f.g. minor interbedded siltstone. Sheared, quartz laced. Cavity 113.5 - 117.8 ft.		
	124.0				Siltstone. Chertific, sheared, brecciated 128.6 - 132.5'		
	132.5				ACID TUFF Minor interbedded siltstone. Random quartz veins. Sheared 132.5 - 141.5, 150-156 ft.		
	217.7				SILTSTONE Minor interbedded acid tuff		
	227.4				ACID TUFF As for 132.5-217.7 ft. Talcose? alteration 246-269 ft.		
	269.1				SILTSTONE As for 217.7-227.4 ft. talcose? alteration 274.7-290 ft. talc carbonate brecciated zone 284 - 287.2 ft.		
	290.0				ACID TUFF Grey-black f.g., minor interbedded siltstone. Slight fracture filling, roughly banded and bedded chalcopryite 341-378 ft, apparently syngenetic.		
	414.5				TUFFACEOUS SILTSTONE.		
	440.5				ACID TUFF Black-grey, f.g. massive Agglomeratic 558-648, 737-772 ft. Brecciated 776-797 ft. some talc carbonate alteration 788-791, Broken 782-809.5 feet. Trace-slight fracture filling and roughly banded pyrite, chalcopryite, sphalerite 805-830, 837-857 ft. Apparently syngenetic, no visible alteration.		

EXPLANATORY SECTION Scale: 1" = 100 ft (1:1200)

