844111

CRA EXPLORATION PTY. LIMITED

DRILL-HOLE SUMMARY LOG

EL NAME: ZEEHAN 1 HOLE NAME: DD94ZM186
EL NUMBER: EL28/88 PROSPECT: MYRTLE
DATE DRILLED: MAY 1994
LOGGED BY: RGP

AMG EAST: 364291 GRID EAST: 60377
AMG NORTH: 5352354 GRID NORTH: 50496
RL: TOTAL DEPTH: 120.9

DEPTH	AZIM. (~~MAG~~ AMG)	INCLIN.
0	090	-45°
50	091	-45.5

OBJECTIVES OF HOLE: To test depth extension of mineralisation intersected in costean and in air-core hole ZM[redacted]18 (36m @ 4.3% Zn).

LITHOLOGICAL SUMMARY:

DFROM	DTO	COMMENTS
0	30.0	PRECOLLAR - NO CORE
30.0	50.2	LIME MUDSTONE
50.2	60.0	STYLOLAMINATED LIMESTONE
60.0	64.2	LIME MUDSTONE
64.2	72.5	CALCARENITE
72.5	88.8	STYLOLAMINATED LIMESTONE
88.8	96.05	ditto + 10% Cu-dol VEINS
96.05	98.2	LIMESTONE BRECCIA + 20% Cu VEINS. PY BAND AT 96.1-96.3.
98.2	120.9	HETEROGENEOUS LIMESTONE

MINERALISATION SUMMARY:

DFROM	DTO	COMMENTS

CONCLUSIONS: No significant alteration or mineralisation observed. Zone of 10-20% Cu-dol veining between 88.8 - 98.2m may be down-dip extension of shallow mineralisation ⇒ late-stage, not stratabound. May be patchy and irregular.

Additional shallow drilling needed to determine if Zn-rich portion has a plunge.

NO REC

LST

LST

120.9

[redacted]

364291E
5352354N

844112 MYRTLE

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

SHEET No. 1 of 3

TENEMENT NAME ..... No. .....

PLAN – MAP REFERENCE .....

CO-ORDINATES 603771E 50496N AZIMUTH -45° DRILLERS DD TAS COMMENCED 6/5/94 DEPTH 120.9 m HOLE No. DD94ZM186

RL COLLAR ..... INCLINATION 090 AMG DRILL TYPE LY38 COMPLETED 10/5/94 CASING LEFT ..... DPO No(s) 77653

DEPTH From (M)	DEPTH To (M)	Core Rec. (M)	Core Size	Graphic Log RQD	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by .....)	DRILL RUNS Fr	To	Rec	RQD
0	30.0		[redacted]		PRECOLLAR - No core.							0	30.0	–	–
													31.5	0.2	5
30.0	32.6		HQ	5	PUGGY CLAY		3985991	30.0	32.6				32.6	0.4	5
					Dark grey.								34.5	1.45	5/2F
													37.5	1.45	2F
32.6	50.2		HQ	2	IRREGULARLY BANDED LIME MUDSTONE		992	34.5	36.7				40.5	2.8	2F
					Banded light and dark grey. Light grey fine g/s lime mud containing schall and mollusc fragments. Dark grey irregular bands + patches of med g/s crystalline CaCO3, possibly recrystallising within CaCO3 mud.		993	40.2	42.85				42.7	0.25	5
													43.5	0.85	5/2V
													46.6	2.05	2V
													46.5	0.9	2S
													49.5	2.95	1F
					Dark grey pug zones at 34.5 - 36.7								50.7	1.15	2F
					40.2 - 42.85								REDUCE TO NQ		
													50.7	51.4	0.65	2F
50.2	60.0		NQ	2F	STYLOLAMINATED LIMESTONE								54.6	2.95	2F
					Light grey very fine g/s lst, almost cryptocrystalline. Fine network of stylolites that define bedding - possibly cleavage.								57.75	3.05	2F
													60.0	2.1	3F
													61.5	1.55	3F
					51.2 S_o - C.A ∠ 38°								64.5	3.0	2F
					" cleavage ∠ 30°										
					S_o - cleavage ∠ ≈115°										
					Reduce to NQ 50.7m.										
60.0	64.3		NQ	2F	IRREGULARLY BANDED LIME MUDSTONE										
					Grey fine to med g/s lst with dark grey fine g/s lst bands, plastically distorted.										
					5% 5-30mm calcite veins.										
					63.9m S_o - C.A. ∠ 50°										

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 2 of 3

TENEMENT NAME .... No. ....

PLAN – MAP REFERENCE ....

CO-ORDINATES .... AZIMUTH .... DRILLERS .... COMMENCED .... DEPTH .... HOLE No. ZM186

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

DEPTH From (M)	DEPTH To (M)	Core Rec. (M)	Core Size	Graphic Log RQ	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by ....)					DRILL RUNS FR	TO	REC	RQ
64.2	72.5		NQ	2F	FOSSILIFEROUS CALCARENITE WITH OVOIDS											64.5	67.5	3.05	1F
					Grey unusual calcarenite with circular, ovoid												70.5	3.0	2F
					to lensoid muddy? "clasts" some showing												73.3	2.75	2F
					concentric layering. Possibly flattened during												75.7	2.25	2S
					compaction. "clasts" 5-20mm diameter												78.7	3.0	1S
					Very fossiliferous, with mollusc + crinoid?												81.8	3.1	2F
					fragments. Minor soft sed breccia, generally												84.9	3.0	2F
					only 50mm wide.												87.2	2.3	2F
					Irregular stylobanded contact at 72.5m												89.45	2.0	2F
					67.6 S_0 (elongation of ovoids) – C.A ∠ 48°												91.5	2.0	4F
																	94.0	2.3	3F
72.5	88.8		NQ	2F	STYLOLAMINATED LIMESTONE												94.8	0.65	4X
					Similar to 50.2 - 60.0.												96.6	1.7	3F
					Light grey fine g/s lst with well developed														
					planar, wavy fine stylolaminations, 3-10mm														
					apart.														
					Similar to 50.2-60.0 but no stylos forming														
					cleavage.														
					75.7 S_0 – C.A ∠ 26°														
					83.7 S_0 ∠ 26°														
					85.5 S_0 ∠ 29°														
88.8	96.05		NQ	4F	VEINED STYLOLAMINATED LIMESTONE		3985994	88.8	92.6										
					As for 72.5 - 88.8 but with 10% of cream		995	92.6	96.05										
					dolomite veins + white calcite veins, 5-300mm														
					thick.														
					94.4 S_0 – C.A ∠ 38°														
					93.5 S_0 ∠ 50°														

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

844114

TENEMENT NAME ..... No. .....

PLAN – MAP REFERENCE .....

CO-ORDINATES ..... AZIMUTH ..... DRILLERS ..... COMMENCED ..... DEPTH ..... HOLE No. ZM 186

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

DEPTH From (M)	DEPTH To(M)	Core Rec. (M)	Core Size	Graphic Log RQD	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by ..... DRILL RUNS)
96.05	98.2		NQ		VEINED LIMESTONE BRECCIA. As for 98.2-120.9 but with 20% calcite veins and breccia cement up to 200mm thick. 200mm of 50% py at 96.1-96.3 within breccia matix.		3985996	96.05	98.2		
98.2	120.9		NQ		HETEROGENEOUS DISRUPTED LIMESTONE + BRECCIA. Grey and dark grey highly variable limestone, from fine g/s lime mud to calcarenite. Beds show abundant soft sed ~~deformation~~ distortion progressing through to chaotic slumping + brecciation, all prelithification. Minor fossil fragments, mostly corals. EOH 120.9m.						

DH SURVEYS

0m -45° 090 AMG

50m -45.5° → 091 AMG

DRILL RUNS To	REC	RQ
96.6 99.7	3.05	LF
102.6	2.8	|
105.65	3.1	|
108.7	3.0	|
111.8	3.05	TF
114.8	3.0	IS
117.85	3.05	LI
120.9	3.05	2