

CRA EXPLORATION PTY. LIMITED
DRILL-HOLE SUMMARY LOG

EL NAME: ZEEHAN 1 HOLE NAME: DD94 ZM185
 EL NUMBER: EL28/88 PROSPECT: MYRTLE
 DATE DRILLED: APR 1994
 LOGGED BY: RGP

AMG EAST: 363748.5 GRID EAST: 59825
 AMG NORTH: 5351804 GRID NORTH: 49996
 RL: _____ TOTAL DEPTH: 137.0

DEPTH	AZIM. (MAG) AMG	INCLIN.
0	118	-45
70	136	-49
137	137	-46.5

OBJECTIVES OF HOLE: To test for suspected stratobound mineralisation intersected in air-core holes ZM55, ZM57, ZM58 (Zm 58 6m @ 5.2% Zn).

LITHOLOGICAL SUMMARY:

DFROM	DTO	COMMENTS
0	8.0	PRECOLLAR
8.0	49.7	CARBONACEOUS SILTSTONE
49.7	57.3	LIMESTONE
57.3	64.3	SILTSTONE
64.3	74.8	LIMESTONE
74.8	75.4	CARBONATE BRECCIA WITH 15% SPHALERITE
75.4	82.75	LIMESTONE WITH TRACE SPHAL
82.75	114.85	LIMESTONE
114.85	117.3	LIMESTONE WITH TRACE SPHAL
117.3	137.0	LIMESTONE

MINERALISATION SUMMARY:

DFFROM	DTO	COMMENTS
74.8	75.4	0.6m @ 14.9% Zn

CONCLUSIONS: Uncertain if sphalerite at 74.8-75.4 is depth extension of shallow minerals intersected by air-core holes. Intersection is late-stage, infilling a breccia with calcite cement. Additional shallow drilling required. No alteration of carbonate.

137.0

363748-5
5351804

844107 MYRTLE

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

SHEET No. 1 of 4
No. E28/2

TENEMENT NAME ZOEHAL
PLAN - MAP REFERENCE

CO-ORDINATES 59825E 49996N AZIMUTH 118 ANG DRILLERS D. JAS COMMENCED 26/4/94 DEPTH 137.0m HOLE No. 9942M185
RL COLLAR INCLINATION -45° DRILL TYPE LY38 COMPLETED 4/5/94 CASING LEFT DPO No(s) 77653

DEPTH		Core Rec. (M)	Core Size	Graphic Rec	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)				
From (M)	To (M)										FR	TD	REC	RS	
0	8.0	-	-		PRECOLLAR - No core							0	8.0	-	-
8	17.8	HQ	4C		WEATHERED CARBONACEOUS SILTSTONE Dark grey fine grained carbonaceous siltstone. Strongly cleaved. Minor Fe oxides on cleavage partings							10.4	2.4	4C	
												12.0	1.6		
												13.5	1.5		
												15.2	1.7		
												16.5	1.3		
												17.8	1.3	5C	
17.8	33.3	HQ	4C		CARBONACEOUS SILTSTONE (WEATHERED?) Dark grey to black strongly carbonaceous siltstone. Strongly cleaved. Core has fine spongy appearance as if partly leached 26.0 cleavage 3-C.A. 60°		3985984	29.6	33.3			19.5	1.5	4C	
												22.5	1.3	5X	
												23.6	0.4		
												24.6	0.5		
												25.5	0.8	4C	
												26.6	1.0		
33.3	46.0	HQ	5X		FAULT ZONE Grey to dark grey puggy clay and carbonaceous siltstone fragments. No recovery 33.3-35.1m.		985	35.1	40.5			27.3	0.8		
							986	40.5	46.0			28.5	0.5		
												29.6	0.5		
												30.8	1.0	5X	
												32.1	0.9		
46.0	49.7	HQ	4C		CARBONACEOUS SILTSTONE (WEATHERED?) As for 17.8-33.3m.							33.3	1.0		
												35.1	-	-	
												36.0	0.45	5X	
49.7	55.4	HQ	1 1/2 C		DISRUPTED LIMESTONE Light grey fine grained lime mud, dismembered and distorted in a matrix of grey mud g/s crystalline carbonate. Not really a breccia as the deformation looks soft and pre-lithification.							36.9	0.5		
												38.6	0.2		
												39.4	0.55		
												40.5	0.7		
												41.5	0.2		
												43.5	1.4		
												45.0	0.9		
55.4	57.3	HQ	5X		FAULT ZONE Grey puggy clay with limestone - siltstone fragments.							46.8	1.4		
												47.8	0.8	5X	
												49.25	1.2	4C	

844109

DRILL CORE LOG

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

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. Zm185

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

DEPTH		Core Rec. (M)	Core Size	Graphic Rec	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)				
From (M)	To (M)										Zn%	Fr	TO	ReC	Rea
74.8	75.4	0.6	HQ	IF	CARBONATE BRECCIA WITH SPHALERITE Grey limestone mosaic breccia with matrix of dark grey silt and white calcite cement. Coarse (2-10mm) euhedral zoned sphalerite, 15% of interval. Sph is pale brown.		3985987	74.8	75.4		14.9	80.2	82.5	2.2	IF
												85.5	3.0		
												88.5			
												91.5			
												121.5			
												175			
75.4	82.75		HQ	IF	LIME MUDSTONE WITH TRACE SPHALERITE Grey fine grs lime mud with common but minor fossil fragments. Minor irregular patches of med grs crystalline carbonate, infilling voids? Also 2-20mm black carbonaceous bands. Core is locally brecciated with white calcite cement. Traces of coarse pale brown sphalerite in cement, 40-5% of interval. Strongly calcite veined.		988	75.4	79.0		0.6	100.5			
							989	79.0	82.75		0.03	103.5			
												106.5	2.9		
												109.5	3.1		
												125	3.0		
												155	3.0		
												118.5	3.0		
82.75	114.85		HQ	IF	LIMESTONE + LIMESTONE BRECCIA. Light grey med grs lst, mostly massive, but with some irregular grey to dark grey med grs crystalline carbonate. Some irregular carbonated stylolites. Minor zones of mosaic breccias - angular lst frags in dark grey silty matrix. Look like sedimentary breccias (e.g. 110.9-111.8). Very strong calcite veining to 107.5m with trace sphalerite (40.1% overall). 110.5 S ₂ ? 4-CA 50										
114.85	117.3		HQ	IF	LIMESTONE + LIMESTONE BRECCIA WITH MINOR SPHALERITE As for 82.75-114.85 but with 2% pale brown sphalerite in white calcite as cement of lst breccia (silty matrix to breccia).		990	114.85	117.3						

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 DRILL CORE LOG

SHEET No. 1 of 17

844110

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

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. ZM185

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

DEPTH		Core Rec. (M)	Core Size	Graphic Log Ref	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)				
From (M)	To (M)										DRILL RUNS				
											Fr	To	Rec	RR	
117.3	121.5		HQ	IF	LIMESTONE + LIMESTONE BRECCIA. As for 82.75-114.85 No vis sphal. Breccia zone appear to be at very low ϕ to core axis, possibly 11 to C.A?							118.5	121.5	3.0	IF
													124.5	2.9	
													127.5	3.1	
													130.5	2.9	
													133.5	3.0	
121.5	137.0		HQ	IF	LIME MUDSTONE Similar to 75.4-82.75 Light grey fine grained lime mud with minor irregular wisps - bands of med grs crystalline carbonate. up to 50mm thick near 121.5, but decreasing to 5-10mm at 137.0m. 2% calcite veins barren 126.5 So ϕ -CA 60°										
													136.5	3.0	
													137.0	0.5	
					DH SURVEYS 0m -45° → 118 AMG 70m -49° → 136 AMG 137m -46.5° → 137 AMG										