342072

CRA EXPLORATION PTY. LIMITED

DRILL-HOLE SUMMARY LOG

HOLE NAME: DD95ZM190 AMG EAST 363448 NORTH 8351780

PROSPECT : MYRTLE GRID EAST 59530 NORTH 49995

EL: ZEEHAN 1 EL 28/88 RL DEPTH 203.9

DATE DRILLED: 1/7/95

LOGGED BY: S.J. TEAR

DRILLING CO.:

DRILL TYPE: DIAMOND

DRILL RIG: LY44

LOC DRILL CORE: ZEEHAN

SURVEYS:

DEPTH	AZIM (AMG)	DIP	DEPTH	AZIM (AMG)	DIP
0	90°	45°			
63m	92°	43.5°			
100.00m	92°	43.5°			
150.00m	91°	44°			
203.9m	91°	43°			

OBJECTIVES OF HOLE:

DIAMOND DRILL TEST OF UPPER SANDSTONE/LIMESTONE CONTACT

LITHOGICAL SUMMARY:

FROM	TO	FORM CODE	COMMENTS
0	18m	Qha	Overburden; no recovery
18	33.3	Sc	Medium grained well bedded sandstone - Crotty Quartzite
33.3	53.1	Sc	Sheared dark grey clay zones - Crotty Quartzite
53.1	77.5	Ogud	Upper Dolomite Unit
77.5	80.6	Ogsd	Siderite Unit
80.6	85.0	Ogud	Upper Dolomite Unit
85.0	96.0	—	Cavity
96.0	107.3	Ogul	Argillaceous bioclatic calcarenites
107.3	108.15	Ogmu	Laminated micrite Unit
108.15	203.9	Ogul	Argillaceous bioclatic calcarenite with burrows

MINERALISATION SUMMARY:

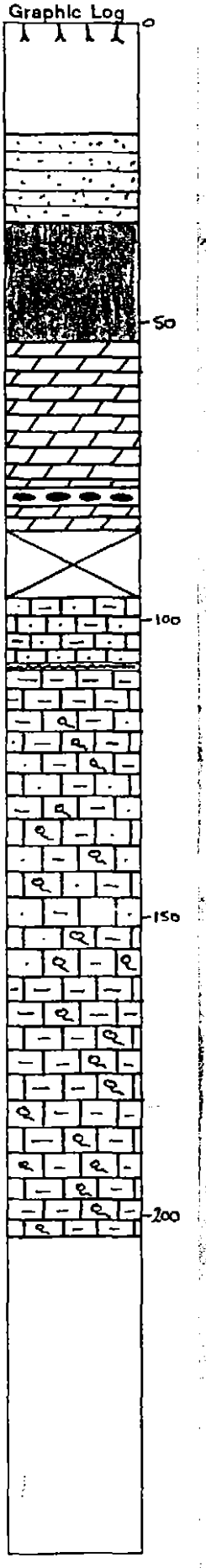
FROM	TO	COMMENTS
51.0	53.1	0.18% Zn in sheared(?) sandstone/siltstone
71.7	72.5	0.29% Zn associated with semi-massive pyrite zone

CONCLUSIONS:

Bedding @ 26m 75° to c/A @ 108m 60° to c/A

Confirmation of minor mineral in Crotty Sandstone immediately above limestone contact. Probably a major sheared contact - displacement unknown. Minor siderite alteration in middle of dolomite.

Graphic Log



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DRILL CORE LOG

SHEET No. 1 of 5

TENEMENT NAME MYRTLE No.

3634485E

CO-ORDINATES 5351780 N AZIMUTH 090° (AMG) DRILLERS ALMAC COMMENCED 1:7:1995 DEPTH 203.9 m HOLE No. ZM190

PLAN – MAP REFERENCE

RL COLLAR INCLINATION 45° DRILL TYPE LY44 COMPLETED 16:7:95 CASING LEFT DPO No(s)

DEPTH From (M)	DEPTH To (M)	Core Rec. %	RQD DATA	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by)
0	18.0	–	–	Qhg	Overburden						
18.0	26.4	100	2	Sc	Grey medium grained locally well bedded massive sandstone; bioturbated zone 18.8 – 19m.	Bedding 75° to c/A. (slight variation to 65° to c/A)	5466282	19.7	22.4		
26.4	28.30	60	5x	Sc	Broken core + core loss associated with grey sandstone possible bioturbated		83	26.4	28.3		
28.3	30.3	35	4f	Sc	Bioturbated sandstone – ?Ironstone & limestone		84	28.3	30.3		
30.3	33.3	80	5	Sc	Clay and brecciated sandstone fragments – non calcareous		85	30.3	33.3		
33.3	37.95	100	5	Sc	Dark grey clay		86	33.3	35.80		
							87	35.8	37.80		
37.95	42.3	63	5	Sc	Light grey (intermixed with dark grey clay bands) clay		88	37.8	39.95		
							89	39.95	42.3		
42.3	53.1	40	5x	Sc	Sheared dark grey sandy ?dolomite or sandstone; non calcareous; locally more clayey.		90	42.3	45.0		
							91	45.0	48.0		
							92	48.0	51.0		
							93	51.0	53.1		
53.1	77.5		5x	Qgd	Dark grey dolomite – broken core	Minor amounts of scattered pyrite blebs and veinlets localised.	94	53.1	54.3		
							95	54.3	56.9		
							96	56.9	58.8		
							97	58.8	60.4		

HQ (NQ)

Rec (From)	Rec (To)	Rec (M)	Rec (%)
0	18	0	0
18	18.3	0.3	100
18.3	21.3	3.0	100
21.3	22.4	1.1	100
22.4	24.3	1.9	100
24.3	25.3	1.0	100
25.3	26.6	1.3	100
26.6	26.8	0.1	50
26.8	26.9	0.1	100
26.9	28.3	0.3	21
28.3	30.3	0.7	35
30.3	33.3	2.4	80
33.3	36.3	3.0	100
36.3	39.3	3.0	100
31.3	42.3	2.7	90
42.3	45.0	1.0	40
45.0	48.0	1.5	50
48.0	51.0	1.5	50
51.0	53.1	0.7	33
53.1	54.3	0.7	72
54.3	54.9	0.45	75
54.9	55.4	0.35	70
55.4	55.6	0.2	100
55.6	56.9	0.3	20
56.9	57.5	0.3	50
57.5	58.6	0.7	67
58.6	58.8	0.1	50
58.8	59.9	0.9	72
59.9	60.4	0.5	100
60.4	62.3	1.9	100
62.3	63.3	0.7	70

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

TENEMENT NAME MYRTLE ~~MYRTLE~~ SHEET No. 0.5 No. ....

PLAN – MAP REFERENCE ....

CO-ORDINATES 363448E 5351780N AZIMUTH .... DRILLERS ALMAC COMMENCED 1.7.1995 DEPTH 108.15 HOLE No. ZM190

RL COLLAR .... INCLINATION .... DRILL TYPE LY44 COMPLETED 16.7.95 CASING LEFT .... DPO No(s) ....

Depth From (M)	Depth To (M)	Core Rec. %	RQ DATA	Graphic Log	Core Description	Special Features (Weath, Alteration, Fracturing, Veining, Mineralization)	Sample No.	From (M)	To (M)	Rec (M)	Assay Values (Analysed by ....) Rec (From)	Rec (To)	Rec (m)	Rec (%)
					Minor scattered zones	Dolomitised veining 61-62.3	98	60.4	62.3		63.3	65.1	1.8	100
					of dol veining + pyrite	30°+10° to c/A. possible fault	299	62.3	63.7		65.1	66.6	1.5	100
					stringer veining	zone.	5466300	63.7	65.1		66.6	67.8	0.4	33
						Small dolomite breccia @ 64m	5468901	65.1	66.6		67.8	69.1	1.0	80
					Badly broken core.	followed by pyritic zone	2	66.6	68.6		69.1	69.9	0.4	50
						- pyrite as med (coarse) grained stringers	3	68.6	70.5		69.9	70.5	0.3	50
						vein. finishes @ 64.5m.	4	70.5	71.7		70.5	71.7	0.9	75
							5	71.7	72.5		71.7	72.5	0.8	100
						Semi massive pyrite @ 72m for	6	72.5	75.0		72.5	73.0	0.4	80
						15cm. Minor blebs of sphalerite	7	75.0	76.9		73.0	73.6	0.45	75
						poss 2 phase of pyrite +	8	76.9	77.5		73.6	75.0	0.9	63
						fine grained & coarser grained	9	77.5	78.8		75.0	75.5	0.25	50
						type.	10	78.8	80.6		75.5	76.9	0.65	380
							11	80.6	82.1		76.9	77.5	0.15	25
77.5	80.6			Ogsd	Possible siderite zone (or pyrite)		12	82.1	84.3		77.5	78.8	0.65	50
					Broken + partially weathered		13	84.3	85.0		78.8	80.6	0.1	5
					core. within dolomite		14	96.0	99.3.		80.6	82.1	0.6	40
							15	99.3	102.3		82.1	84.3	0.4	18
80.6	85.0			Ogud	Dolomite with zones of						84.3	85.0	0.2	28
					calcareous material						85.0	87.3	0	0
											87.3	90.0	0	0
95.0	96.0				CAVITY – NO RECOVERY						90.0	93.0	0	0
											93.0	96.0	0	0
96.0	107.3			Ogul.	Grey/Dark grey med/fine grained	Calcite veining mainly as stringers	16	102.3	105.3.		96.0	99.3	1.1	33
					calcarenite - broken core and	105.8-105.0 Calcite vein sub	17	105.3	107.3		99.3	102.3	1.5	50
					slightly rotted. Minor argillite (bands)	parallel to c/A.					102.3	105.3	2.4	80
					zones and locally coarse bioclasts						105.3	108.3	2.4	80
					Some ?stylocumulates						108.3	111.3	3.0	100
											111.3	114.3	3.0	100
107.3	108.15	80	3	Ogmu	Laminated micrite unit.	Bedding 60° to c/A	18	107.3	108.15.		114.3	117.3	3.0	100
											117.3	120.3	3.0	100

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 3.5

TENEMENT NAME. MYRTLE No. .....

PLAN – MAP REFERENCE .....

CO-ORDINATES 363448E 5351780N AZIMUTH ..... DRILLERS. ALMAC ..... COMMENCED 1.7.1995 DEPTH 134.9 HOLE No. ZM190

RL COLLAR ..... INCLINATION ..... DRILL TYPE. L744 ..... COMPLETED 16.7.95 CASING LEFT ..... DPO No(s) .....

DEPTH From (M)	DEPTH To(M)	Core Rec. %	RQD	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)
108.15	111.0	100	2	Ogul	Grey med/fine grained calcarenite ~~and~~ interbedded with argillite bands at top of unit becoming more irregular downhole	minor calcite veining.	19	108.15	111.0.		
111.0	113.3	100	2	Ogul	Bands of argillaceous calcarenite < 8cm interbedded with med/fine grained grey calcarenite occ thin calcite veins at contacts. – Distinctive unit. Base						
113.3	114.3	100	1	Ogul	Bituminous and bioclastic calcarenite.						
114.3	120.9	100	1	Ogul	As before but unit; diverse slightly irregular argillaceous calcarenite (dk grey/black) bands with med/fine grained grey calcarenite. – grey calcarenite has bioclastic bands (locally coarse. Some argillite bands have v.thin calcite veins at contacts						
120.9	122.9	100	1	Ogul	Light grey coarsely bioclastic calcarenite with stromatoporoids at base.		20	120.9	122.9.		
122.9	134.9	100	1	Ogul	As before bioclastic unit. Slightly more nodular but with bivalves.	Zone of calcite veining 131.3 – 134.9 (min) veins subparallel to c/A.	21	132.3	134.9		

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 4 . 5

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

PLAN – MAP REFERENCE ....

363448E

CO-ORDINATES 5351780N AZIMUTH .... DRILLERS ALMAC COMMENCED 1·7·1995 DEPTH 186·3 HOLE No. ZM190

RL COLLAR .... INCLINATION .... DRILL TYPE LY44 COMPLETED 16·7·95 CASING LEFT .... DPO No(s) ....

DEPTH From (M)	DEPTH To (M)	Core Rec. %	RQ DATA	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)
134·9	135·8	100	2	Ogul	Synsedimentary breccia zone	Calcite veined 70° t c/A 10° t c/A	22	134·9	135·8	
					Disrupted units with variable					
					grain size of bioclasts.					
135·8	145·45	100	1	Ogul.	Fine/med grained grey calcarenite	Calcite vein 137·9 - 138·05	23	135·8	138·3	
					(locally bioclastic + locally	45° t c/A. - poss shear.				
					almost micritic) with argillite	Bedding 60° t c/A.				
					discrete bands - some	Other ↓ minor calcite veining.				
					bands have fine grained					
					bioclasts. Argillite becoming					
					less discrete + less frequent					
					downhole.					
145·45	153·8	100	1	Ogul	Grey, bioclastic, fine grained	Calcite veining locally intense	546824	146·3	148·7	
					calcarenite with minor	but irregular 145·45-150m.				
					interstitial argillite; burrowed					
					zones.					
153·8	157·9	100	2	Ogul	Major zone of calcite veining	Contacts of 10's cm thick veins	25	153·8	155·9	
						60° t c/A generally.	26	155·9	157·9	
157·9	168·3	100	1	Ogul	Grey med/fine grained bioclastic	Minor calcite veining mainly	27	161·6	163·6	
					calcarenite with minor	as sporadic stringers.				
					interstitial argillite and thin					
					bands. Becoming more					
					calcargillite (darker grey)					
					@ 163·3m.					
168·3	203·9	100	1	Ogul	Amorphous-looking med/fine grained	Occ thick calcite veins up to	28	174·3	176·0	
					bioclastic calcarenite with	8cm thick ~60° t c/A.				
					calcargillite appearance (locally)	Calcite vein @175·7 for 32cm with pyrite at base 45° t c/A.	29.	183·3	186·3	

ASSAY VALUES (Analysed by ....)

Rec (from)	Rec (to)	Rec (m)	Rec (%)
120·3	123	3·0	100
123·3	126·3	3·0	100
126·3	129·3	3·0	100
129·3	132·3	3·0	100
132·3	135·3	3·0	100
135·3	138·3	3·0	100
138·3	141·3	3·0	100
141·3	144·3	3·0	100
144·3	147·3	3·0	100
147·3	150·3	3·0	100
150·3	153·3	3·0	100
153·3	156·3	3·0	100
156·3	159·3	3·0	100
159·3	162·3	3·0	100
162·3	165·3	3·0	100
165·3	168·3	3·0	100
168·3	171·3	3·0	100
171·3	174·3	3·0	100
174·3	177·3	3·0	100
177·3	180·3	3·0	100
180·3	183·3	3·0	100
183·3	186·3	3·0	100
186·3	189·3	3·0	100
189·3	192·3	3·0	100
192·3	195·0	2·7	100
195·0	198·0	3·0	100
198·0	201·0	3·0	100
201·0	203·9	2·9	100

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. (5)·5

TENEMENT NAME MYRTLE No.

PLAN – MAP REFERENCE

CO-ORDINATES 363448E 5351780N AZIMUTH

DRILLERS ALMAC

COMMENCED 1.7.1995

DEPTH 203.9m

HOLE No. ZM190

RL COLLAR

INCLINATION

DRILL TYPE LY44

COMPLETED 16.7.95

CASING LEFT

DPO No(s)

DEPTH From (M)	DEPTH To (M)	Core Rec. %	RQ DATA	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.......)
					Zone of light grey equigranular unit 177 – 178.4m.		5468430	201.0	203.9		
					Very uniform looking texture; minor bioturbation / disturbance; relatively rare bioclasts from 178.4m onward.	minor calcite veining from 178.4m 45° ∠ c/A; 60° ∠ c/A					
					END OF HOLE 203.9m.						

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