

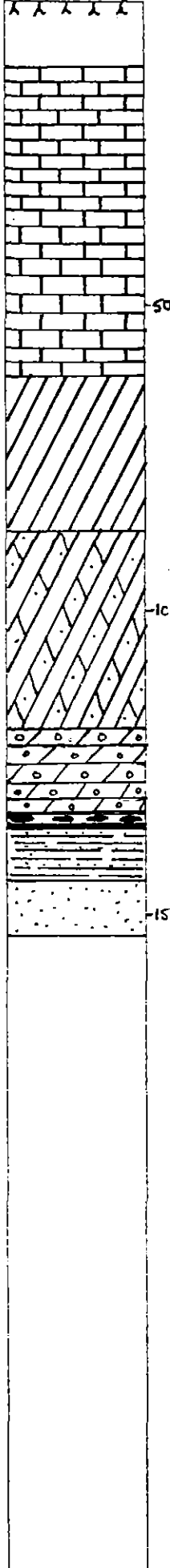
DRILL-HOLE SUMMARY LOG

HOLE NAME: DD95ZG403 AMG EAST 364759 NORTH 5349842  
 PROSPECT: GRIEVES GRID EAST 60998 NORTH 48349.5  
 EL: ZEEHAN 4 EL38/89 RL \_\_\_\_\_ DEPTH 154 m

DATE DRILLED: 28/2/95  
 LOGGED BY: S.J. TEAR  
 DRILLING CO.: ALMAC  
 DRILL TYPE: DIAMOND  
 DRILL RIG: LY44  
 LOC DRILL CORE: ZEEHAN

SURVEYS:					
DEPTH (m)	AZIM (AMG)	DIP	DEPTH	AZIM (AMG)	DIP
0	150°	45			
50	146°	42.5			
100	146°	44			
150	146°	44			

Graphic Log



OBJECTIVES OF HOLE:  
 DRILLHOLE IS PART OF A FAN OF 3 HOLES AIMED AT TESTING THE DOWN PLUNGE OF THE GRIEVES MINERALISATION (LOWER SANDSTONE/LIMESTONE CONTACT) NORTH OF THE GRIEVES FAULT.

LITHOLOGICAL SUMMARY:

FROM	TO	FORM CODE	COMMENTS
0	11	Qha	Overburden; mic. brown/black clays.
11	62.1	Ogul	Mixed calcarenites with textonised/faulted zones occ. laminated micaite unit; occ. bioclastic.
62.1	97.5	Ogfz	Faulted fine grained calcarenite zone; locally dolomitic
97.5	120.6	Ogfz	Dolomitised fault affected calcarenite; clay gouges; locally argillaceous + bioclastic.
120.6	134.0	Ogoo	Dolomitised oxide unit - major cone loss, is 10% recovery
134.0	135.5	Ogsd	Black clay with siderite
135.5	136.1	Ogdc	Black clay with limonitic top to unit.
136.1	145.0	Ogst	Silty Transition Unit - limonitic clays locally silty + sandy
145.0	154.0	Om	Moira Sandstone - weathered, limonitic sandstone.

MINERALISATION SUMMARY:

FROM	TO	COMMENTS
134.0	135.5	0.56% Zn in sideritic black clays.

CONCLUSIONS:  
 Bedding. @ 28.5m 70° to c/a, @ 83m 60° to c/a, @ 134m 70° to c/a @ 152m 50° E c/a.  
 Drillhole failed to intersect significant mineralisation; hole appeared to be "considerably faulted with localised laminated pyrite clots (? indicative of an early mineralising phase - pyrite rich?)

346033

C.R.A. EXPLORATION PTY. LIMITED  
DRILL CORE LOGTENEMENT NAME GRIEVES SHEET No. .... No. 1098CO-ORDINATES <sup>364754E</sup> 5349842N AZIMUTH..... DRILLERS MAX HARVEY COMMENCED 28/2/95 DEPTH 154M HOLE No. 20403  
RL COLLAR..... INCLINATION 45 DRILL TYPE DDH COMPLETED 21.3.95 CASING LEFT..... DPO No(s).....

PLAN - MAP REFERENCE.....

DEPTH 154M HOLE No. 20403

CASING LEFT..... DPO No(s).....

DEPTH		Core Rec. 1/2	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.....)			
From (M)	To (M)										REC (m)	REC (%)	(m)	(%)
0	4	0			Overburden - no recovery						0	4	0	0
4	11	60	S	Ogcl	Brown/black clay						4	4.6	0.6	100
											7	10	0	0
1	13.3	60	4X	Ogcl.	Dark grey/black rotted limestone with broken core minor Calcite (red) veining. with localized clay zones.	Fabric 80° E c/A.					10	13	2.0	66
											13	16	2.0	66
											16	19	2.0	66
											19	21.5	2.15	100
											21.5	22	0	0
3	13.6	100	2	Ogcl	Grey weathered limestone	Fabric 75° E c/A.					22	25	2.4	80
											25	27.4	2.4	100
											27.4	28	0.3	50
											28	29.4	1.0	70
3.6	14.6	50	5X	Ogcl	Angular rock fragments (limestone) in clay						29.4	29.7	0.3	100
											29.7	30.4	0.7	100
											30.4	32.8	2.2	100
4.6	14.6	60	3X	Ogcl	Tectonised light grey fine grained calcarenite with med grained dark grey calcarenite Belly broken core.	Abundant small scale calcite veining - offset + truncated by 35° E c/A fabric. nearly white matrix brecciation 19.8-20.5					32.8	33.9	0.9	80
											33.9	35	1.0	90
											35	36.3	1.3	100
											36.3	36.7	0.4	100
											36.7	37.7	0.9	90
											37.7	38.3	0.6	100
											38.3	39.5	0.4	33
											39.5	42.6	3.1	100
											42.6	43.7	0.7	63
2.6	26.0	35	4X	Ogcl	Dark grey/black partly rotted limestone. Possibly light grey fine calcarenite + dark grey calcarenite	Minor calcite veining					43.7	45.1	0.5	37
											45.1	45.8	0.35	50
											45.8	47.5	1.7	100
											47.5	48.2	0.7	100
											48.2	49	0.8	100

346034

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

SHEET No. ....

TENEMENT NAME GRIEVES No. 258

PLAN - MAP REFERENCE.....

364759<sup>E</sup>

CO-ORDINATES 5349842<sup>N</sup> AZIMUTH..... DRILLERS MAX HARVEY COMMENCED 28.2.95 DEPTH 154 m HOLE No. 2C403

RL COLLAR..... INCLINATION 45 DRILL TYPE L44 COMPLETED 21.3.95 CASING LEFT..... DPO No(s).....

DEPTH m	To (M)	Core Rec. %	RC 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 %
											49	52	2.2	68
0	28.17	75	3	Ognd	Irregularly competent fine grained calcarenite (micrite) with minor dark grey med grained calcarenite; localised zones of broken core + clay	Calcite veining - conjugate pairs 245° E c/a + 70° c/a.					52	55	2.7	90
											55	58	2.7	90
											58	59.8	1.5	100
											59.8	61	1.2	100
											61	62.3	1.3	100
											62.3	63	0.5	70
17	28.57	100	1	Ognd	med grained grey/light grey calcarenite - Birds eyes. Distinctive crystals @ base.	Bedding 70° W c/a.					63	64	0.9	90
											64	65.9	1.9	100
											65.9	67	1.1	100
											67	67.7	2.7	100
											67.7	70	0.3	100
37	29.4	20	5x	Ogfc	Clay zone with calcite veining						70	72.2	2.0	90
											72.2	73	0.6	75
4	30.5	100	1	Ogfc	light grey fine grained calcarenite (micrite) stylolitic	Minor brown arkosites					73	74.7	1.2	66
											74.7	76	1.3	100
											76	77.5	1.5	100
5	31.4	100	2	Ognd	light grey fine grained calcarenite with laminated locally crystalline material	Fabric - ? cleavage 50° c/a. Bedding 85° E c/a.					77.5	79	1.5	100
											79	80.3	1.3	100
											80.3	82	1.7	100
											82	85	3.0	100
4	35.7	80	2	Ognd	grey micritic unit with localised crystalline cores and bands with irregular calcite veining localised broken core zones.	Calcite vein 1cm 20° E c/a.					85	88	3.0	100
											88	91	3.0	100
											91	92.6	1.6	100
											92.6	94.0	0.5	37
											94.0	95.5	1.5	100
											95.5	96.4	1.0	90
											96.4	97.0	0.6	100
											97.0	98.0	1.0	100
7	37.7	70	5x	Ogfc	Broken core with localised clay zones + calcite veining. Birefringent. Strange calcite crystal growth @ 37.7.	Minor Pyrite Veining @ 36.5m.					98.0	100.0	2.0	100
											100.0	102.5	2.5	100
											102.5	105	2.5	100







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

SHEET No. 6 of 8  
No. 628

346038

TENEMENT NAME CRIEVES  
PLAN - MAP REFERENCE.....

CO-ORDINATES 364759 E 53° 48' 42" N AZIMUTH.....  
DRILLERS MAX HARVEY COMMENCED 28.2.95 DEPTH 154 m HOLE No. 26403  
RL COLLAR..... INCLINATION 45° DRILL TYPE LY44 COMPLETED 21.3.95 CASING LEFT..... DPO No(s).....

DEPTH (m)	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 %	
1.5	95.0	100	2	Og1	Coarsely bioclastic calcarenite with argillite	Upper fault/clay gouge contact 45° to c/a. Lower fault/clay gouge contact 70° to c/a.	1142517	94	95.5			105	106	0.85	85
												106	107	0.9	90
												107	109	2.0	100
												109	112	3.0	100
												112	112.3	0.3	100
10	99.1	85	5x	Og1z	Badly broken core with clay gouges; localized small sticks of calc.	Lower clay gouge/lentic contact 60° to c/a.		95.5	97.0			112.3	114.3	1.6	80
								97.0	99.01			114.3	115.3	0.4	40
												115.3	115.6	0.2	66
												115.6	116.6	0.5	50
11	99.6	100	1	Ogbr	Partially dolomitised breccia zone	minor pyrite blebs in interstices.		99.01	100.0			116.6	118	0.2	14
												118	120.6	2.0	75
												120.6	121.5	0	0
16.6	100.8	"	3x	Og1	Locally coarsely bioclastic calcarenite with argillite, possibly colitic	10% pyrite in upper 5cm as blebs + dissemination		100.0	101.1			121.5	124	0	0
												124	124.3	0.3	100
												124.3	124.8	0	0
												124.8	126.1	0	0
10.35	102.5	100	4x	Bifz	Brecciated zone with clay gouge - micritic limestone with pyrite blebs.	Upper contact 60° to c/a. minor calcite veining		101.1	102.5			126.1	129	0	0
												129	129.4	0.2	50
												129.4	129.7	0.25	82
												129.7	130	0.3	100
12.5	102.8	100	1	Og1	Dolomitised argillaceous calcarenite			102.5	103.9			130	131	0.1	10
								103.9	105.55			131	133	0	0
												133	134	0.1	10
2.8	105.55	195	4x	Og1	Locally dolomitised bioclastic argillaceous calcarenite with v. minor calcite veining							134	135.7	1.7	100
												135.7	136.6	0.9	100
												136.6	137.9	1.1	86
												137.9	139.0	0.9	90
15.5	107.3	100	5	Og1z	Clay gouge with brecciated rock fragments.	localised dolomitisation		106.55	107.3			139.0	139.6	0.3	50
												139.6	140.6	0.3	80
												140.6	141.7	0.9	90
17.3	108.8	100	3x	Og1	Distinctive med grained bioclastic		1142550	107.3	108.8			141.7	142.9	0.6	50

# 346039

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

TENEMENT NAME GREENES SHEET No. 7 of 8  
No. 7 of 8

54759E

CO-ORDINATES S3+9342N AZIMUTH..... DRILLERS Max HARVEY COMMENCED 28.2.95 DEPTH 154M HOLE No. 20403  
RL COLLAR..... INCLINATION 45° DRILL TYPE LY44 COMPLETED 21.3.95 CASING LEFT..... DPO No(s).....

PLAN - MAP REFERENCE.....

DEPTH m	Core Rec. %	RW	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)				
										From	To	M	%	
3.8	110.7	100	S	Og/z	Clay gouge with brecciated rock fragments (? Dolomitic)		108.8	110.7			142.9	144.3	0.4	100
											144.3	145.6	1.3	100
											145.6	147.6	1.3	86
7	114.3	100	S	Og/z	Clay gouge with brecciated rock fragments (? Dolomitic)	localised ? clasts of fine grained pyrite	110.7	112			147.6	148.9	0.5	38
							112	114.3			148.9	149.7	0.7	84
											149.7	151	0.65	50
3	118.0	30	S	Og/z	Clay with brecciated rock fragments - clay washed out. Cavities - Drilling problems		114.3	116.6			151	152	1.0	100
							116.6	118.0			152	152.3	0.2	66
											152.3	152.6	0.2	66
											152.6	153.1	0.25	50
10	119.1	100	S	Og/z	Clay gouge with brecciated rock fragments.		118.0	119.1			153.1	154	0.15	17
1	120.6	66	S	Og/z	lt grey clay with fine grained (frag) inc. red hematitic frags. locally black clay.		119.1	120.6						
6	134	10	5x	Og/z	med grained oolitic? calcarenite dolomitised, with hematitic upper part. Bad Recovery		120.6	129.	?					
							129	134.	?					
+	135.5	100	S	Og/z	Black clay and siderite zone - weathered micritic limestone at base - decalcified	Bedding 70° E c/A.	134	135.5						
55	135.7	100	S	Og/z	limonitic clay with some hematitic nodules		135.5	136.6						

[ NO RECOVERY 120.6 - 124.0!  
" " 131.0 - 133.0!  
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