CRA EXPLORATION PTY. LIMITED

346086

DRILL-HOLE SUMMARY LOG

HOLE NAME: DD9576407 AMG EAST 364607 NORTH 5349573

PROSPECT Grieves GRID EAST 6146 NORTH 30048

EL: Zechan No 4 EL38/89 RL DEPTH 120.0 m

DATE DRILLED: 13/5/95 - 19/5/95

LOGGED BY: Sandy Meapes

DRILLING CO.: Almac

DRILL TYPE: Diamond

DRILL RIG:

LOC DRILL CORE: Zechan

SURVEYS: DEPTH	AZIM (AMG)	DIP	DEPTH	AZIM (AMG)	DIP
50	144°	71°			
100	150°	72			

OBJECTIVES OF HOLE:

Plunge extensions of known lower zone mineralisation south of Grieves Fault beneath zone of deep weathering (2nd hole in fan of three)

LITHOGICAL SUMMARY:

FROM	TO	FORM CODE	COMMENTS
27	65	Ogul	Undifferentiated limestone
65	84	Ogfz	Limestone fault breccia (Grieves Fault)
84	98.4	Ogul	Argillaceous, bioturbated micritic limestone
98.4	100.7	Ogul	As above but partially decomposed to clay
100.7	103.2	Ogsd	Siderite. Some sphalerite?
103.2	104.0	Ogdc	Dark grey clay
104.0	115.5	Ogfc	Ferruginous clay, sandy in places
115.5	116.1	Ogst?	Porous and permeable, fine to medium grained quartz sandstone
116.1	120.0	Om	"Glassy" quartzite and minor micaceous light greenish grey claystone.

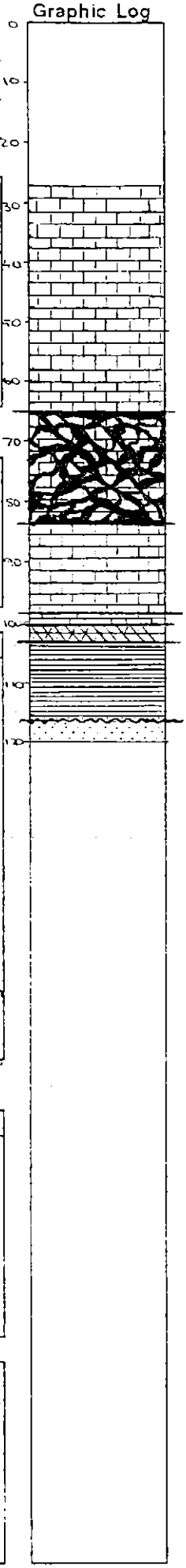
MINERALISATION SUMMARY:

FROM	TO	COMMENTS
100.7	103.2	Siderite unit. (Possibly minor sphalerite?)
103.8	104.0	Zn rich black clays
		Summary: Geochemical Analysis
99.0	100.7	1.88% Zn (1.7m)
100.7	103.2	7.88% Zn (2.5m)
103.2	104	1.46% Zn (0.8m)

CONCLUSIONS:

Hole intersected a significantly thinned siderite and clay unit cf 76407. Thinned siderite and black clay unit (2.5 and 0.8m respectively) were mineralised but Zn occurs predominantly as Zincian siderite and Zincian clays. ?? Thinning due to increased distance from growth fault?? (see long-section)

Graphic Log



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DRILL CORE LOG

346087

SHEET No. 1 of 2

364607 E

CO-ORDINATES 7349543 N AZIMUTH ..... DRILLERS Almac COMMENCED 13.5.95

RL COLLAR ..... INCLINATION ..... DRILL TYPE LY38 COMPLETED 19.5.95

TENEMENT NAME GRIEVES No. ..... 1 of 2

PLAN – MAP REFERENCE .....

DEPTH 120m HOLE No. ZC407

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

DEPTH From (M)	DEPTH To (M)	Core Rec. %	RQD cm	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 %
0	27.8	0		Cha	Overburden + Tertiary limestone – no recovery						27.8	28.5	0.8	100
											28.5	31.5	2.3	77
											31.5	34.3	2.3	82
27.8	30.5	80	4x	Ogd	Grey med/fine calcarenite with minor argillite partings; locally bioturbated brown clay/fault gouges	well veined with calcite					34.3	37.5	2.45	77
											37.5	40.5	1.7	57
											40.5	41.2	.65	93
											41.2	42.5	1.2	92
											42.5	43.5	.68	68
											43.5	43.8	.4	100
31.5	37.4	100	1	Ogd	light grey fine grained calcarenite interbedded with dark grey argillaceous calcilutite disrupted bedding	minor calcite veining					43.8	44.4	.31	50
											44.4	46	1.0	63
											46	46.7	.6	86
											46.7	47	.1	33
											47	48.8	.5	28
											48.8	49.8	.15	15
24	36.7	84	5x	Ogfz	Start of fault zone. - fault gouge (brown) with sub angular breccia clasts +/- calcite veining. Clasts up to 5cm include micritic bioclastic (coarse) units.						49.8	50.7	.6	66
											50.7	51	.3	100
											51	52.1	.6	55
											52.1	55.5	.8	24
											55.5	57	1.2	80
											57	58.5	1.23	82
											58.5	60	1.7	100
											60	61.5	1.5	100
36.7	37.5	100	1	Ogd	Dark grey/grey burrowed calcarenite unit; with argillite partings and thin beds	minor calcite veining					61.5	64.5	2.75	92
											64.5	66.9	2.3	96
											66.9	68.6	1.77	100
											68.6	69.9	1.0	77
											69.9	70.9	.9	90
37.5	40.8	82	5x	Ogd	Grey med/fine calcarenite with interstitial argillite, also partings + wisps						70.9	73.5	2.6	100
											73.5	75.7	2.2	100
											75.7	76.9	1.15	96

346088

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

SHEET No. ...

TENEMENT NAME GRIEVES No. 2 of

PLAN – MAP REFERENCE ...

CO-ORDINATES 364607 E 5349543 N AZIMUTH ... DRILLERS ALMAC COMMENCED 13.5.95 DEPTH 120 m HOLE No. ZG407

RL COLLAR ... INCLINATION ... DRILL TYPE LY38 COMPLETED 19.5.95 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 ...)
					Broken core						
0.3	43.3	30	5	Ogfz	Fault (gouge zone), brown clay with varied clasts up to 5cm.		4141270	41.2	42.9		
43.3	55.8	50	5x	Ogfz	Broken core heavily veined grey calcarenite with argillaceous calcarenite minor clay zones - faults.	calcite veining / sub brecciation angular + multiphase.					
55.8	59.5	35	2	Ogwb	Dark grey / grey bioturbated calcarenite unit; locally brecciated; minor clay gouge breccia zones.	Minor calcite veining					
59.5	60.9	30	4X	Ogfz	Broken + weathered core with some calcite veining - probable fault gouge						
60.9	64.3	100	2	Ogwb	Dk grey / grey bioturbated calcarenite unit as before overlying fault minor clay gouge zones.	Bedding 60° t.c.a. two phase calcite veining 70° t.c.a.					
64.8	84.2	80	5x	Ogfz	Brown clay with brecciated limestone clasts; veined limestone clasts; calcite vein material - ? Micritic limestone as majority of clasts - light grey clasts, with brown cementing	Major fault zone - the Grieves Fault.	4141273	64.8 75.5 92.5	66.0 76.6 93.5		

346089

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

TENEMENT NAME GRIEVES SHEET No. .... No. 3

PLAN – MAP REFERENCE ....

CO-ORDINATES 364601E 5349543N AZIMUTH .... DRILLERS ALMAC COMMENCED 13.5.95 DEPTH 120m HOLE No. ZG407

RL COLLAR .... INCLINATION .... DRILL TYPE LY 38 COMPLETED 19.5.95 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 %
4·2	78·4	100	2x	Ogd	Grey/dark grey burrowed	Relatively minor veining					76·9	78	1·0	90
					calcarenite unit as						78	78·6	·6	100
					before fault. With zones						78·7	79·2	·5	83
					of brown clay fault						79·2	79·4	·2	100
					breccia zones						79·4	81	1·3	81
					eg 86·6-86·8						81	82·5	1·5	100
					87·1-87·3						82·5	83·5	1·2	100
					88·0-89·3						83·5	84·9	1·28	91
					94 - 95·1						84·9	86·8	2·0	100
		100									86·8	88·5	1·5	88
8·4	99	~~60~~	5x	Ogd	Broken core includ..		74	98·4	99.		88·5	89·8	1·4	100
					burrowed calcarenite						89·8	92·6	2·5	93
					and calcite veins (<5cm						92·6	94·5	1·5	79
					thick); Dark grey clay						94·5	95·1	·9	100
					zones.						95·1	96·8	1·5	88
				sd							96·8	98·4	1·4	88
90	103·2	90	5x	Ogd	Dark grey clay zone	Sideritic alteration	75	99·0	99·8		98·4	98·7	·44	100
					with light grey clay	of limestones? or qtz	76	99·8	100·7		98·7	99·8	·6	66
					breccia zones - angular	siltstones	77	100·7	101·8		99·8	102·7	1·7	59
					limestone fragments.		78	101·8	103·2		102·7	104·5	1·5	83
						75					104·5	106·5	2·0	100
3·2	104	100	5	Ogfc	Dk grey clay with light	?Bedding ~~[illegible]~~ ∠ C/A.	79	103·2	104.		106·5	109·5	3·15	100
					grey/white ~~[illegible]~~ clays	Minor brecciated vein qtz					109·5	112·5	3·2	100
					?sandstone (?clasts) ?fault	at base.					112·5	115·5	2·9	97
					zone.						115·5	116·1	·2	33
4·0	115·5	100	5	Ogfc	Brown/orange ferruginous	Hematitic from 111·7 - 112·2	4641280	104	106		116·1	117	·8	89
					clays; Evidence of sheared	70° ∠ C/A contact upper contact	81	106	108		117	118·2	1·2	100
					faulting (micro scale) @		82	108	110		118·2	120	1·7	94.
					103·5 m.		83	110	112					
							84	112	114					
							85	114	115·5					

SHEET No. ....

346090

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

TENEMENT NAME: GRIEVES No. 4/4

PLAN – MAP REFERENCE:

CO-ORDINATES: 5349543 N / 364607 E AZIMUTH:

DRILLERS: ALMAC COMMENCED: 13.5.95 DEPTH: 120m HOLE No. ZG407

RL COLLAR: INCLINATION: DRILL TYPE: LY38 COMPLETED: 19.5.95 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 ....)
115.5	120.0	90	2	Om	White/light grey silicic quartzite; weathered top to unit; minor sericitic shale bands. 60° to c/A. @ 118.2 two bedding parallel qtz veins with jasper alteration between them.	Bedding 60° to c/A possible crossbedding.	414286.	115.5	117.0		
					EOH 120m.						