

CRA EXPLORATION PTY. LIMITED
DRILL-HOLE SUMMARY LOG

428057

Graphic Log

HOLE NAME: DD962A2 AMG EAST 355609 NORTH 5357297
 PROSPECT AVEBURY GRID EAST NORTH
 HOLE: ZEEHAN 1 EL 27188 RL DEPTH

DATE DRILLED: 31/12/96
 LOGGED BY:
 DRILLING CO.: ALMAC
 DRILL TYPE: DIAMOND
 DRILL RIG: LF70
 MDC DRILL CORE: ZEEHAN

SURVEYS:

DEPTH	AZIM (AMG)	DIP	DEPTH	AZIM (AMG)	DIP
0	352°	48°			
50	305°	50°			

OBJECTIVES OF HOLE:

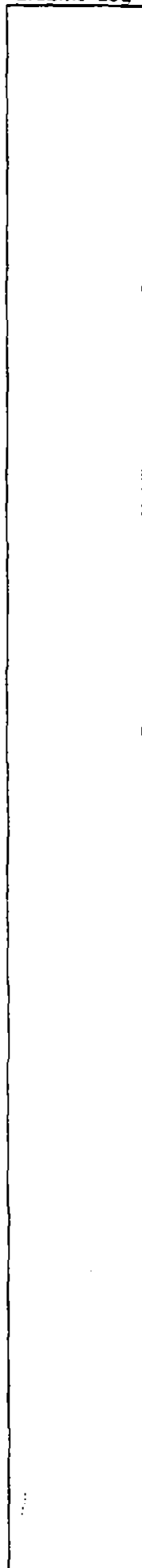
LITHOLOGICAL SUMMARY:

FROM	TO	FORM CODE	COMMENTS
0	2		Overburden
2	44		Andesitic, porphyritic lavas
44	66		Mixed fine grained porphyritic lavas, agglomerates, breccias?
66	88		Carbonate magnetite stain unit.
88	122		Serpentinite with magnetite (dominated to semi massive)
122	168		Dacitic volcanics
168	174		Shear zone
174	195		Serpentinite with disseminated magnetite.
195	246		Rhyolites -> Dacites, chloritized.
246	255.5		Chloritized rhyolites -> Dacites with fine grained granite? -> brown serpentine unit.

MINERALISATION SUMMARY:

FROM	TO	COMMENTS

CONCLUSIONS:



428058

DRILL CORE LOG

TENEMENT NAME ZEEKAN 1 No.

PLAN - MAP REFERENCE ANEBURY

CO-ORDINATES..... AZIMUTH..... DRILLERS ALMAC COMMENCED 31/12/96 DEPTH..... HOLE No. DA6ZA

RL COLLAR..... INCLINATION..... DRILL TYPE LF3D COMPLETED..... CASING LEFT..... DPO No(s) 2

DEPTH		Core Rec. LMT %	Core Size RD	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)										From (M)	To (M)	From (M)	To (M)
0	2	-	-	-	Overburden - not recovered						2	3.5	1.3	
2	5.9	75	SX		Ferruginous clay rock more iron/rusty at top of unit.						3.5	5	1.5	100
											5	6.5	1.2	80
											6.5	7.4	0.7	77
											7.4	7.7	0.25	83
											7.7	9.2	0.5	100
5.9	15.0	90	IF		Partially weathered Grey/green volcanic rock probably tuff material or Agglomerate End of HQ @ 15m.	Silicified and chloritized Purple mineral < 1mm blobs disseminated throughout core possibly carbonate Almost porphyritic - med/coarse grained.					9.2	10.7	1.5	100
											10.7	12.2	1.5	100
											12.2	13.7	1.5	100
											13.7	15.0	1.3	100
											15.0	17.0	2.0	100
											17.0	19.8	2.8	100
											19.8	21.0	1.2	100
15.0	42.0	100	IF		Start of HQ Green/grey volcanic rock probably an andesitic/dacitic lava agglomerate. Locally porphyritic (med/coarse grained) localised intraformational brecciation; hints of presence of amygdalae.	Strongly silicified and chloritized - chlorite more prevalent downhole. Purple/off white mineral disseminated thro' rock probably carbonate or smectite. Zones of massive fine grained chlorite after 30m? veins. No qtz or carb veins unshattered core - no sulphides.					21.0	23.0	2.0	100
											23.0	24.9	1.9	100
											24.9	27.9	3.0	100
											27.9	29.0	1.1	100
											29.0	32.0	3.0	100
											32.0	35.0	3.0	100
											35.0	38.0	3.0	100
											38.0	40.2	2.2	100
											40.2	42.0	1.8	100
											42.0	44.0	2.0	100
											44.0	46.2	2.2	100
											46.2	49.0	1.9	100
42.0	48.5	100	IF		Finer grained porphyritic andesitic lava.	Chlorite alteration Minor zones of silicification 2 phases of chlorite Purple mineral not obvious.					48.0	50.0	2.0	100
											50.0	53.0	3.0	100
											53.0	56.0	3.0	100
											56.0	59.0	3.0	100
											59.0	62.0	3.0	100
											62.0	65.0	3.0	100

428059

DRILL CORE LOG

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

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. **DD962A2**

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

DEPTH		Core Rec. (M)	Core Size	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)										From	To	Rec	%
48.5	51.7	100	1f		Mixed fine grained andesitic lava and porphyritic lava.	Localized reappearance of purple mineral. Highly variable alteration patterns - mainly chloritization +/- silicification					65.0	68.0	3.0	100
											67.0	69.3	1.2	90
											69.3	71.0	1.7	100
											71.0	74.0	3.0	100
											74.0	77.0	3.0	100
											77.0	80.0	3.0	100
51.7	56.4	100	1f		Fine grained porphyritic andesitic lava; sec clasts suggesting agglomeratic generally quite uniform.	Chloritized					82.0	83.0	3.0	100
											83.0	86.0	3.0	100
											86.0	89.0	3.0	100
											89.0	92.0	3.0	100
											92.0	95.0	3.0	100
56.4	58.0	100	1f		Volcanic breccia with rounded clasts in a partially silicified chlorite/carbonate matrix ?lapilli tufts						95.0	98.0	3.0	100
											98.0	101.0	3.0	100
											101.0	104.0	3.0	100
											104.0	104.5	0.5	100
											104.5	109.5	2.85	95
											109.5	110.5	3.0	100
58.0	62.0	100	2f		Fine grained porphyritic lava with possibly large amygdaloides	Chloritized localized variable alteration in 2 nd phase chlorite, silica (+/- carbonate + serpentine).					110.5	113.5	3.0	100
											113.5	116.5	3.0	100
											116.5	119.5	2.85	95
											119.5	122.5	3.0	100
											122.5	125.5	3.0	100
62.0	63.8	100	1f		Thermally altered fine grained lava.	Possible small scale spherulite (dark brown) veining 25° t.c/A. 2 nd phase chlorite alteration abundant.					125.5	127.5	2.0	100
											127.5	129.0	1.4	92
											129.0	131.0	2.0	100
											131.0	133.4	2.4	100
											133.4	135.1	1.7	37.5
63.8	68.4	100	1f		lt grey/green soft unit Probably chlorite, carbonate (calcite) and serpentine - minor etc or ?clasts.	Upper contact 60° t.c/A. Disseminated magnetite Sharp increase in magnetic susceptibility.					135.1	137.0	1.9	100
											137.0	139.2	2.2	100
											139.2	140.0	0.8	100

DRILL CORE LOG

TENEMENT NAME..... No.

PLAN - MAP REFERENCE.....

428060

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. DD962A2

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

DEPTH		Core Rec. (M)	Core Size	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)										From (m)	To (m)	As. (m)	%
					Qtz vein with associated magnetite 67.7-68m.	Minor calcite veins generally 70° to c/a. Clots of reddish brown sphalerite from 66m onwards (< 1m sig) Dissem. sphalerite zone 3cm @ 67.55m. in ? limestone.					140.0	143.0	3.0	100
											143.0	146.0	2.85	95
											146.0	149.0	3.0	100
											149.0	152.0	3.0	100
											152.0	153.3	1.0	76
											153.3	154.8	1.3	79
											154.8	155.5	0.7	55
3.4	68.8	100	1f		Qtz-carbonate vein	Diffuse contact - upper lower contact 45° E c/a.					155.5	158.0	2.5	100
											158.0	161.0	2.9	98
											161.0	164.0	3.0	100
68.8	70.95	100	2f		DK grey/black magnetic unit	Abundant disseminated (10%) sphalerite (+/- pyrrhotite) Localised zones of pyrite Irregular calcite veins and vugs lower contact 75° E c/a but irregular.					164.0	167.0	2.85	95
											167.0	170.0	3.0	100
											170.0	172.6	2.6	100
											172.6	175.7	3.1	100
											175.7	178.8	3.1	100
											178.8	181.6	2.8	100
											181.6	184.6	3.0	100
											184.6	187.7	3.1	100
70.95	72.6	100	1f		lt grey/green unit calcareous - possibly replaced clean limestone. Strong possibility of serpentine alteration	Partially silicified - minor pyrite dissem blebs - ? calcification.					187.7	189.2	1.5	97
											189.2	189.9	0.7	100
											189.9	191.7	1.2	95
											191.7	193.4	2.0	100
											193.4	196.4	3.0	100
72.6	72.75	100	1f		Calcite/serpentine/magnetite vein with large < 3cm mass of pyrite, sphalerite + chalcopyrite	Vein contacts 85° to c/a.					196.4	197.4	3.0	100
											197.4	200.0	2.5	95
											200.0	203.0	3.0	100
											203.0	206.0	3.0	100
72.75	73.65	100	4f		Green/Dark Turquoise calcareous unit						206.0	209.0	3.0	100
											209.0	211.9	2.9	100
											211.9	214.4	2.5	100
											214.4	217.4	3.0	100

428061

DRILL CORE LOG

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

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. DD962A2

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

DEPTH		Core Rec. (M)	Core Size	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)										From (m)	To (m)	Rec (m)	%	
73.65	75.0	100	if		Lt grey/green calcareous unit - replaced limestone	?clots of sphalerite (reddish brown) locally						217.4	220.5	3.1	100
												220.5	223.6	3.1	100
												223.6	226.6	3.0	100
77.0	82.7	100	if		Magnetite - carbonate - serpentine altered limestone unit. locally semi-massive magnetite or disseminated blebs < 2mm in size.	Divergent veinlets of pyrite. Minor blebs of sphalerite. Weakly calcareous at base - ? calcilicites present.						226.6	229.6	3.0	100
												229.6	232.6	3.0	100
												232.6	234.0	1.3	95
												234.0	236.0	2.0	100
												236.0	236.8	0.8	100
												236.8	239.0	2.2	100
82.7	83.05	100	if		3-4mm disseminated magnetite zone	with blebs of reddish/brown sphalerite.						239.0	242.0	3.0	100
												242.0	245.0	3.0	100
												245.0	247.0	3.0	100
93.05	86.0	100	if		Grey/dark grey/green carbonate magnetite-serpentine unit possible calcilicites	Occ blebs of pyrite, + minor sphalerite						247.0	250.0	2.9	100
												250.0	252.5	1.6	100
												252.5	254.0	1.5	100
												254.0			
86.0	87.0				Magnetite-Carbonate-serpentine unit with semi-massive magnetite	Minor pyrite blebs (2-5mm) or disseminated veinlets.									
87.7	90.7	100	if		Grey/dark grey carbonate = magnetite - serpentine unit	Minor pyrite & sphalerite blebs (2-5mm)									
90.7	93.3	100	if		Magnetite-carbonate-serpentine unit - semi massive magnetite	Minor pyrite blebs.									
93.3	102.2	100	if		Grey/dark grey carbonate magnetite-serpentine unit.	Minor pyrite & pyrrhotite blebs. Magnetite (semi-massive) areas ~3-8cm bands and blebs occur every 20-40m.									

occur every 20-40m.

