342115

CRA EXPLORATION PTY. LIMITED

DRILL-HOLE SUMMARY LOG

HOLE NAME: DD95ZS31		AMG	EAST 359733	NORTH 5359462		
PROSPECT: STONEHENGE		GRID	EAST 12000	NORTH 5220		
EL: ZEEHAN 1	EL 29/88	RL		DEPTH 209.5m		

DATE DRILLED: 8/6/95
LOGGED BY: S.J. TEAR
DRILLING CO.: DD. TAS. LTD
DRILL TYPE: DIAMOND
DRILL RIG: U650
LOC DRILL CORE: ZEEHAN

SURVEYS:

DEPTH	AZIM (AMG)	DIP	DEPTH	AZIM (AMG)	DIP
0	200°	50°			
50	201°	52°			
100	202°	49°			
150	201°	47.5°			
200	198°	47°			

OBJECTIVES OF HOLE:

DRILL TEST AIRCORE RESULTS OF :- ZS5 17m @ 2.8% Zn
ZS6 6m @ 2.8% Zn
ZS10 9m @ 2.4% Zn

AIR CORE LINE PROJECTED 100m to East.

LITHOGICAL SUMMARY:

FROM	TO	FORM CODE	COMMENTS
0	2.5	Qha	Overburden; no recovery.
2.5	28.5	Posb	Black, fissile, graphitic shales.
28.5	40.5	Posb	Mineralised sheared zone with black shales.
40.5	52.7	Pos	Buff coloured medium grained sandstone.
52.7	68.35	Pos	Mixed sequence of sandstones and siltstones with dolomitic limestone beds
68.35	78.4	Pos	Buff coloured fine grained sandstone and shales.
78.4	124.0	Pos.	Intermixed sandstones, siltstones and dolomitic limestones (?limestone dominant).
124.0	133.15	Pos	Fine grained sandstone and siltstones with graphitic shales
133.15	152.95	Pos	Interlaminated fine grained sands, silts and dolomitic limestones
152.95	159.0	Posb	Sheared massive pyrite zone with siltstones and black shales
159.0	171.1	Pos	Interbedded black shales and quartzitic sandstones
171.1	182.0	Poq	Massive Quartzites
182.0	209.5	Poq	Mixed sequence of massive quartzites with units of interbedded quartzites and dk gray/black siltstone shales

MINERALISATION SUMMARY:

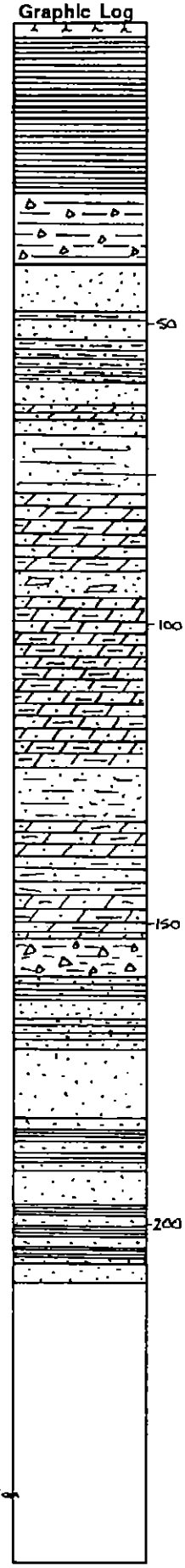
FROM	TO	COMMENTS
30.35	40.5	4.49% Zn inc 6.5m @ 6.3% Zn from 34.0 - 40.5m. silver values up to 119 ppm; Semi massive sphalerite zones (+/- galena) in sheared black shales with qtz boundaries
152.95	156.2	2.51% Zn (30 ppm Ag) as semi massive/massive pyrite ? veins with blebs of sphalerite.

CONCLUSIONS:

BEDDING @ 49.5m 60° t c/A (locally folded) @ 88.5 45° t c/A @ 114.3m 30° t c/A t 45° t c/A t 10° t c/A @ 133.15m 60° t c/A, t 15° t c/a @ 145.3m @ 161.5m 60° t c/a @ 191.8m 55 t 70° t c/A

The Upper zone of black shale hosted mineralisation is heavily sheared but possibly stratabound; the lower zone of black shale hosted mineralisation is thought to be structurally controlled; Distinctive elemental signatures are related to each zone.

Graphic Log



C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 1

TENEMENT NAME STONEHENGE No. of 14

359738E

CO-ORDINATES 5359462N AZIMUTH 200 AMG DRILLERS DD OF TAS COMMENCED 8.6.95

PLAN – MAP REFERENCE

DEPTH 209m HOLE No. ZS31

RL COLLAR INCLINATION -450° DRILL TYPE DD U650 COMPLETED 29.7.95

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)
0	2.5	0	–	Qha	Overburden.					
2.5	4.5	68	5	Posb	Brown clay - ?rotted black shale?					
4.5	6.1	50	5	Posb	Light brown/fawn clay with white quartz vein fragments					
6.1	7.9	19	5	Posb	Black clay - rotted black shale		546101	7.5	9.0	
7.9	28.5	70	46	Posb	Black shale - heavily sheared well folded. Localised zones where black shale interbedded with v. fine grained grey sandstones (≤ 35mm thick)	Major plane 20° to c/A. cleavage 45° to c/A (Graphite)	2	9.0	11.0	
							3	11.0	13.4	
						duo plane 70° to c/A.	4	13.4	15.75	
						@ 9.4m bedding sub parallel to c/A. - unsure a primary cleavage.	5	15.75	18.00	
							6	18.00	19.5	
							7	19.5	20.7	
						V.V. minor quartz veining	8	20.7	23.6	
					Increase in fissility from 19.8m	usually folded or boudinaged.	9	23.6	25.5	
							10	25.5	27.0	
						Fabric @ 23m 70° to c/A.	11	27.0	28.5	
28.5	31.4	66	5X	Posb	Very sheared and fissile black shale - pyritic zone (+/- minor sphalerite) from 30.35 - 30.65	Quartz vein boudains Minor dissem. blebs of pyrite - localised silicification minor qtz stringers	12	28.5	29.55	
						@ 31.40 dk brown sphalerite blebs	13	29.55	30.35	
							14	30.35	31.5	
31.4	34.0	50	5	Posb	Dark grey clay with occ black shale fragments. + Qtz vein (vuggy)	Dissemination of pyrite blebs with minor sphalerite	15	31.5	32.5	
							16	32.5	33.5	
							17	33.5	34.0	

ASSAY VALUES (Analysed by.....)

REC (From)	REC (To)	REC (M)	REC (%)
0	2.5	0	0
2.5	3.5	.75	75
3.5	4.5	0.5	50
4.5	6.0	0.5	33
6.0	7.5	0.15	10
7.5	8.1	0.45	75
8.1	9.0	0.9	100
9.0	10.0	0.9	90
10.0	11.0	0.8	80
11.0	11.9	0.3	33
11.9	13.4	1.3	87
13.4	14.5	1.0	90
14.5	15.75	1.25	100
15.75	16.5	0.75	100
16.5	18.0	1.0	67
18.0	19.5	1.5	100
19.5	20.7	0.9	75
20.7	22.1	0.7	50
22.1	23.6	1.2	80
23.6	24.25	0.65	100
24.25	25.5	0.3	24
25.5	27.0	1.2	80
27.0	28.5	1.0	67
28.5	29.75	0.9	72
29.75	31.5	1.2	69
31.5	32.5	0.2	20
32.5	33.5	0.4	40
33.5	34.5	0.8	80
34.5	35.5	0.8	80
35.5	36.0	0.25	50
36.0	37.2	0.5	50

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DRILL CORE LOG

SHEET No. 2 of 14

TENEMENT NAME STONEHENGE No.

PLAN – MAP REFERENCE

CO-ORDINATES 367733E 5359462N AZIMUTH 200 AMG DRILLERS DDTAS COMMENCED 8.6.95 DEPTH 209 m HOLE No. ZS31

RL COLLAR INCLINATION -60° DRILL TYPE U650 COMPLETED 29.7.95 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.....)
34.0	35.2	67	5%	Poss	Black clay – sheared black shale + fine siltstone fragments	Minor disseminated fine grained pyrite; with slim bands of dk brown sphalerite (? vein or beds?)	546118	34.0	35.2		
35.2	37.0	50	5%	Poss	Black clay with massive sulphide zones. Some silicified black shale with qtz stringer veins	35.2–35.32 Disem pyrite with larger sphalerite blebs	19	35.2	35.5		
							20	35.5	36.0		
						35.32–35.50 Massive pyrite with subordinate sphalerite (v.v minor qtz)	21	36.0	37.0		
						35.50–35.58 Massive sphalerite with galena					
						35.58–36.00 Disseminated pyrite, sphalerite + ?pyrrhotite					
						36.00–36.18 Massive pyrite and sphalerite					
						36.18–37 – massive pyrite + sphalerite zones in clays with disem py+sph.					
37.0	37.50	80	5%	Poss	Black graphitic clay with hardened bands (? silicified – pervasive)		22	37.0	37.50		
37.5	40.0	33	5%	Poss	Dark grey + grey clay zones – shale fragments. Minor vuggy vein quartz fragments.	Disem pyrite in darker coloured clay zones (+/- sphalerite)	23	37.5	39.0		
							24	39.0	40.0		
40.0	40.5	40	5%	Poss	Silicified shale and vuggy vein quartz	Stringer zones; Vuggy qtz with disem pyrite and sphalerite; Localised massive pyrite & sphalerite zones.	25	40.0	40.5		

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DRILL CORE LOG

SHEET No. 3A.

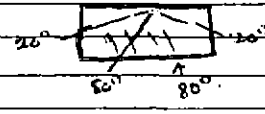
TENEMENT NAME STONEHENGE No. EL4

359733E

PLAN – MAP REFERENCE

CO-ORDINATES 5359462N AZIMUTH 200 AMG DRILLERS DDTAS COMMENCED 8.6.95 DEPTH 209m HOLE No. ZSS31

RL COLLAR INCLINATION -50° DRILL TYPE 4650 COMPLETED 29.7.95 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.....)					Rec (mm)	Rec (%)	Rec (m)	RQD (%)
40.5	48.1	90	5X	Pos	Cream coloured heavily sheared interbedded fine grained Sandstones, Siltstones and shales - sericitised? Generally thinly bedded < 1-5cm. Decreasing shale // hole.	Vuggy qtz vein at top of unit. Fracture planes. 30° to c/A 50° to c/A. 	5466126	40.5	42.25							37.0	37.5	0.4	80
							27	42.25	44.50							37.5	33.5	0.4	40
							28	44.50	46.05							38.5	39.0	0.15	30
							29	46.05	48.1							39.0	40.0	0.2	20
							30	48.1	49.5							40.0	40.5	0.2	40
							31	49.5	51.5							40.5	42.25	0.3	50
																42.25	43.5	0.25	30
48.1	49.5	100	4X	Pos	Dark grey silt/shale unit 48.1 - 49.50 with folded qtz vein.	Bedding sub parallel to c/A. (previous cleavage).										43.5	44.5	0.9	90
																44.5	46.05	1.55	100
																46.05	47.2	1.15	100
																47.2	48.75	1.55	100
49.5	51.5	90	4X	Pos	Fine grained cream/buff sandstones locally more massive bedding.	Bedding 60° to c/A. Qtz veining scarce.										48.75	49.5	0.75	100
																49.5	51.0	1.5	100
																51.0	52.5	1.3	87
																52.5	53.0	0.4	73
51.5	52.7	90	5X	Pos	Sheared zone of buff sandstone and dark grey shales + siltstones	Minor quartz veining.	32	51.5	52.7							53.0	54.0	0.85	89
																54.0	55.5	1.5	100
																55.5	57.0	1.5	100
																57.0	58.5	1.5	100
52.7	60.0	90	3C	Pos	Dark grey / grey fine grained Sandstones and siltstones; locally heavily sheared; Zones of quartz veining eg 54 - 54.4m. locally quite fissile; ~~weathered~~ rotted core; light brown zones towards base of unit	Top contact sheared with minor qtz vein stringers. Fabric 60° to c/A. Folded bedding @ 59.7m.	33	52.7	54.4							58.5	60.0	1.5	100
							34	54.4	57.0							60.0	61.5	0.75	50
							35	57.0	58.5							61.5	63.0	1.2	80
							36	58.5	60.0							63.0	64.5	1.3	87
																64.5	66.0	1.5	100
																66.0	67.5	1.2	80
																67.5	69.3	1.5	100
																69.0	70.5	1.5	100
																70.5	72.0	1.5	100
60.0	61.5	50	4X	Pos	Grey med grained Sandstone locally calcareous with qtz veining - well rotted	Core loss at 60.6m - cuttings retained contain sphalerite possibly sourced further up hole.	37	60.0	61.5							72.0	73.5	1.5	100
																73.5	75.0	1.5	100
																75.0	76.5	1.5	100

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DRILL CORE LOG

SHEET No. 4 of 4

TENEMENT NAME STONEHENGE No.

359733E

CO-ORDINATES 5359462 N AZIMUTH 200 AMG DRILLERS DDTAS COMMENCED 8.6.95

PLAN – MAP REFERENCE

DEPTH 209 m HOLE No. ZS31

RL COLLAR INCLINATION -50° DRILL TYPE 4650 COMPLETED 29.7.95

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)
61.5	63.0	80	3X	Pos	Heavily sheared grey med grained sandstone with argillite partings Sandy clay towards base of unit.	Boudained qtz veining with orc crush zones.	5466138	61.5	63.0		
63.0	66.2	90	2	Pos	Distinctive alteration unit with strong silicification with qtz veins; smeared clays from drilling are calcareous; core saved for carbonate analysis. Major quartz stockwork	63–63.4 ± brown alteration siderite or sphalerite? V. minor late-stage qtz veining	39 40 41	63.0 63.4 64.5	63.4 64.5 66.2		
66.2	67.05	70	3C	Pos	Dark grey/grey altered sandstone with qtz veining; with brown coloured zones.	locally qtz veining has dark brown sphalerite. light brown alteration zones may siderite or sphalerite	42	66.2	67.50		
67.05	67.21	100	1	Pos	Quartz vein followed by semi massive sulphide zone.	Massive sphalerite, locally with v. minor galena; vein infill Vein 45° t c/A contact. lower contact 65° t c/A.					
67.21	67.5	100	2	Pos	Footwall silicic alteration to vein with some sphalerite + galena.			67.21			
67.5	68.35	100	2	Pos	Dark grey/grey sandstone with qtz-sericite alteration and veining as before vein.	v. irregular lower contact qtz veined.	43	67.5	68.35		

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DRILL CORE LOG

SHEET No. 5 of 14

TENEMENT NAME STONEHENGE No.

PLAN – MAP REFERENCE

CO-ORDINATES 357733E 5359462N AZIMUTH 200 AMG DRILLERS DDTAS COMMENCED 8.6.95 DEPTH 209 m HOLE No. ZS31

RL COLLAR INCLINATION -50 DRILL TYPE LL650 COMPLETED 29.7.95 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.....) Rec (from)	Rec (To)	Rec (M)	Rec %
68.35	77.7	100	1c	Pos	Cream/buff coloured shales, siltstones + occ fine grained sandstones. Coarsening downhole in siltstones + more massively bedded fine sandstones. Folded unit.	Possible refolded thin bedding parallel quartz veinlets. Bedding locally parallel to c/A. Qtz vein zone 74.6-75.4 irregular thicke veining.	5466144	68.35	70.5			76.5	78.0	1.5	100
							45	70.5	72.0			73.0	74.5	1.5	100
							46	72.0	73.5			74.5	76.0	1.5	100
							47	73.5	75.5			76.0	77.5	1.5	100
							48	75.5	77.0			77.5	79.0	1.5	100
												79.0	80.5	1.5	100
												80.5	82.0	1.5	100
												82.0	83.5	1.5	100
												83.5	85.0	1.5	100
77.7	78.4	84	3	Pos	Light brown/cream interbedded sandstone, siltstone + shale. Slightly rotted – sericitic alteration?		49	77.0	78.4			78.0	79.5	1.5	100
												79.5	81.0	1.5	100
												81.0	82.5	1.5	100
												82.5	84.0	1.5	100
78.4	88.5	100	1	Pos	Grey/light grey heavily qtz veined siltstone with totally silicification; localised breccias at top contact. Hydraulic fracturing minor rosette material. Possible fine sandstone and siltstone interbeds. Darker colouration after 86m + less veining	Silicic alteration on pre-existing qtz(+carbonate) veining in multi-phase quartz veining. ?antobrecciation; veining reducing downhole. Vein 1cm at 88.4m 45° t.c/A	50	78.4	80.3			84.0	85.5	1.5	100
							51	80.3	82.5			85.5	87.0	1.5	100
							52	82.5	84.0			87.0	88.5	1.5	100
							53	84.0	84.5			88.5	90.0	1.5	100
							54	84.5	87.0			90.0	91.5	1.5	100
							55	87.0	88.5			91.5	93.0	1.5	100
												93.0	94.5	1.5	100
												94.5	96.0	1.5	100
												96.0	97.5	1.5	100
												97.5	99.0	1.5	100
												99.0	100.5	1.5	100
												100.5	102.0	1.5	100
												102.0	103.5	1.5	100
												103.5	105.0	1.5	100
												105.0	106.3	1.3	100
												106.3	108.0	1.7	100
												108.0	109.5	1.5	100
												109.5	111.0	1.5	100
												111.0	112.5	1.5	100
88.5	91.5	100	1	Pos	Laminated shales, siltstones +/- fine sandstones – well cleaved with boudains	Localised zones of disseminated pyrite; minor qtz veins 60° t c/A. + 20° t c/A. Bedding 45° t c/A. possible crenulation cleavage.	56	88.5	90.0			112.5	114.0	1.5	100
							57	90.0	91.5			114.0	115.5	1.5	100
												115.5	117.0	1.5	100
												117.0	118.5	1.5	100
												118.5	120.0	1.5	100
												120.0	121.5	1.5	100
												121.5	123.0	1.5	100

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 6 of 14

359733E

TENEMENT NAME STONEHENGE No.

CO-ORDINATES 5369462N AZIMUTH 200 AMG DRILLERS DD TAS COMMENCED 8.6.95 PLAN – MAP REFERENCE

RL COLLAR INCLINATION -50° DRILL TYPE U650 COMPLETED 29.7.95 DEPTH 209 m HOLE No. ZS31

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.....)
91.5	95.7	100	1	Pos	Dark grey, locally black well folded interlaminated shales and siltstones; occ <1cm fin grained sandstone.	localised zones of dissem pyrite	5466158	91.5	93.0		
							59	93.0	94.5		
						Occ large qtz vein irregular size and shape.	60	94.5	95.7		
95.7	97.5	100	1	Pos	Grey interlaminated shales siltstones and fin grained thin sandstones. locally well sheared.	? silicification; local zones of irregular quartz veining / brecciation	61	95.7	97.5		
						Minor pyrite disseminations					
97.5	100.4	100	1	Pos	Increase in amount of quartz veining + autobrecciation	@ 99.3 Qtz-py-cpy vein/vnlt	62	97.5	99.0		
						Minor pyrite dissem	63	99.0	100.5		
						v. minor galena + chalcopyrite.					
100.4	100.5	100	2	Pos	Breccia - possibly fault related with clasts of siltstone /sandstone in dark grey/black matrix						
100.5	104.7	100	1	Pos	Grey fin grained sandstone becoming more interbedded with siltstones (+/- shales) well veined and localised zones of brecciation	Qtz veining 70° to c/A.	64	100.5	102.0		
						cleavage 40-20° to c/A.	65	102.0	103.5		
						Minor galena in qtz veins.	66	103.5	104.7		
						Minor pyrite blebs, localised. Inc dolomite veining					
104.7	107.9	100	1	Pos	Lt grey altered fin grained sandstone/limestone.	Heavily veined with qtz carbonate veining - localised areas of vein brecciation. Multi phase veining up to 50% of rock	67	104.7	106.3		
							68	106.3	107.9		

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 7 of 14

TENEMENT NAME STONEHENGE No.

359733E

CO-ORDINATES 5359462N AZIMUTH 200 AMG DRILLERS DOTAS COMMENCED 8.6.95 DEPTH 209 m HOLE No. ZS31

PLAN – MAP REFERENCE

RL COLLAR INCLINATION -50° DRILL TYPE U650 COMPLETED 29.7.95 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.....)
107.9	109.25	100	1	Pos	Grey fine grained calcareous sandstone (weakly calcareous) with minor shale zones sub parallel to c/A.	Qtz-carbonate stringer veining 75° to c/A. Postdated by Qtz-carb vein 50° to c/A but preceded by qtz veining (blue qtz veining) 30° to c/A.  Major veining zone 108.4–108.75m.	5466169	107.9	109.25		
109.25	111.0	100	1	Pos	Med-fine grained grey ?dolomitised calcarenite; abundant qtz grains.	Qtz-carbonate veining much reduced from above.	70	109.25	111.0.		
111.0	113.6	100	1	Pos	med grained ?bioclastic ~~calc~~dolomitised calcarenite; possible autobrecciation zones @ 113.6m; Weakly calcareous	Relatively minor ~~calcite~~ qtz carbonate veining Pyrite + cream coloured dolomite veins subparallel and < 30° to c/A	71	111.0	113.6		
113.6	114.73	100	1	Pos	Heavily veined grey ?dolomitised calcarenite/calcareous sandstone passing into to interlaminated shale facies.	Qtz-carbonate veining – dolomite predominates.	72	113.6	114.73		
114.73	117.1	100	1	Pos	Dk grey interlaminated fine sandy, silty and shales; folded but open folding. Graphitic surfaces.	Bedding 30° to c/A. Minor white stringer veinlets. Localised zone of non intense veining qtz-carb with qtz predominant.	73	114.73	117.1		

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 8 of 14

TENEMENT NAME STONEHENGE No.

359733E

PLAN – MAP REFERENCE

CO-ORDINATES 5359462N AZIMUTH 200 AMG DRILLERS DDTAS COMMENCED 8.6.95 DEPTH 209 m HOLE No. ZS31

RL COLLAR INCLINATION -50° DRILL TYPE 4650 COMPLETED 29.7.95 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.....) REC (From)	REC (To)	REC (M)	REC (%)
117.1	118.2	100	1	Pos	Light grey, heavily veined dolomitised ?calcareous; veining becomes brecciation generally; weakly calcareous	Qtz-carbonate veining brecciation Cream coloured ?dolomite veins 45° to c/A – late stage.	5466174	117.1	118.2		123.0	124.5	1.5	100
											124.5	126.0	1.5	100
											126.0	127.5	1.5	100
											127.5	129.0	1.5	100
											129.0	130.5	1.5	100
118.2	124.0	100	1	Pos	Fine grained grey sandstones with siltstone layers; shale bands also occur. Lt grey/grey/dark grey.	Qtz-carbonate veining at top of unit – disappearing d/hole; becomes more stringer veining variety; Bedding 45° to c/A. Zones of more intense qtz-carb veining can be pyritic. ~~Carbonate not present in veins after~~ Major Veining 45° to c/A. and thin veinlets 80° to c/A. Bedding parallel pyrite @ 121.4m + 124.0m Bedding @ 122.5 10° to c/A. Minor pyrite blebs + stringers	75	118.2	120.0		130.5	132.0	1.5	100
							76	120.0	121.5		132.0	133.5	1.5	100
							77	121.5	124.0		133.5	135.0	1.5	100
											135.0	136.5	1.5	100
											136.5	138.0	1.5	100
											138.0	139.5	1.5	100
											139.5	142.4	2.9	100
											142.4	144.0	1.6	100
											144.0	145.5	1.5	100
											145.5	147.0	1.5	100
											147.0	148.5	1.2	80
											148.5	150.0	1.5	100
124.0	126.0	100	1	Pos	Dark grey fine grained siltstone locally well laminated; becoming light grey on base, coincident with more veining.	Bedding 10° to c/A. Large pyrite blebs < 2cm. Some bedding parallel pyrite bands (< 0.5cm thick) @ 124.9m. Qtz-carbonate veining towards base of unit.	78	124.0	126.0		150.0	151.5	1.5	100
											151.5	153.0	1.5	100
											153.0	154.5	1.5	100
											154.5	156.0	1.5	100
											156.0	157.5	1.3	80
											157.5	159.0	1.5	100
											159.0	160.0	0.9	90
126.0	139.15	100	1	Pos	Interbedded fine grained grey sands, silts and darker grey shales, locally graphitic; locally silicic beds – cherts Minor galena with qtz-carb vein eg 129.3. Sphalerite-rich vein @ 131.4m 25° to c/A. chert Anisian after 132.0m.	Light grey/white veining? or bounding sandstone at top of unit; paving after 70cm ink more off white/ light brown qtz-carbonate veining white locally/locally is v. pyritic (and ?silicification) – as diseams and blebs up to 10%.	79	126.0	127.2		160.0	161.5	1.5	100
							80	127.2	128.3		161.5	163.0	1.5	100
							81	128.3	130.0		163.0	164.5	1.5	100
							82	130.0	132.0		164.5	166.0	1.5	100
							83	132.0	133.15		166.0	167.5	1.5	100
									135.0		167.5	169.0	1.5	100
											169.0	170.5	1.5	100

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 9 of 14

TENEMENT NAME STONEHENGE No.

PLAN – MAP REFERENCE

CO-ORDINATES 5359462N 359733E AZIMUTH 200 AMG DRILLERS DDTAS COMMENCED 8.6.95

DEPTH 209m HOLE No. ZS31

RL COLLAR INCLINATION -50° DRILL TYPE LM 650 COMPLETED 29.7.95

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.....)
133.15	136.5	100	1	Pss	Interlaminated grey fine grained sands and silts; well folded (open). Coarser sand bands in band 0.75m.	Bedding 60° to c/A. Zones of qtz-carbonate stringer veining; rare chalcopyrite, pyrite sphalerite in veins eg 134m Veining locally producing brecciation. Longer single vein 45° to c/A (>1cm)	5466[illegible]	133.15	1350		
							85	135.0	136.5		
136.5	140.1	100	1	Pss	Grey fine grained ?bioturbated sandstone; locally disturbed; brecciation zones ?tectonic or ?hydrothermal @ 137.2m – 137.4m. becoming more silty d/hole with shaly bands.	Bedding 60° to c/A. @ 138.5 minerne in carb/qtz veining - cuts other bedding @ 60° to c/A	86	136.5	137.9		
							87	137.9	140.1		
140.1	141.7	100	1	Pss	Qtz-carb brecciation zone; intense irregular veining; silicified dark grey siltstone host.	Minor disseminated pyrite +/- sphalerite (dark brown) locally; generally associated with later stage fawn colour dolomite veining	88	140.1	141.7		
141.7	143.6	100	1	Pss	Silicified dark grey siltstone (?+/- cherty) with locally intense impersistent and irregular qtz carb veining.	Later phase of qtz-carb (dolomite) fawn coloured veining with blebs of sphalerite and galena locally 3cm vein at 142.4 60° to c/A. also thinner vein 30° to c/A.	89	141.7	143.6		
143.6	145.3	100	1	Pss	Fine grained dark grey sands and silts with shale laminae. Disrupted bedding due to folding and shearing	Bedding 15°. Qtz-carb veining (dol) 30° to c/A. cuts earlier qtz-carb (white) veins.	90	143.6	145.3		

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 10 of 14

TENEMENT NAME STONEHENGE No.

PLAN – MAP REFERENCE

CO-ORDINATES 5359462N 359733E AZIMUTH 200 AMG DRILLERS DDTAS COMMENCED 8.6.95 DEPTH 209m HOLE No. ZS31

RL COLLAR INCLINATION -50° DRILL TYPE U650 COMPLETED 29.7.95 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.....)
145.3	147.50	100	1	Pos	Dark grey interlaminated sands, silts and shales; Bone veined /brecciated.	Bedding sub parallel to c/A. Minor qtz-carb stringer veins.	5466191	145.3	147.65		
147.50	147.65	100	1	Pos	(Dolomitised) bioclastic calcarenite with argillite zones – silicified.						
147.65	148.5	190	3	Pos	Zone of qtz veining /breccia zone. Fawn coloured dolomite veining with increased amounts of sphalerite	Galena and sphalerite with pyrite in veins + country rock Galena dominant.	92	147.65	148.5		
148.5	150.15	100	1	Pos	Grey silicified limestone (?dolomitised) locally almost brecciated by veining.	with abundant thin impersistant qtz-carb veining (white) and fawn coloured qtz-carb veining (dolomite)	93	148.5	150.15		
150.15	152.1	100	1	Pos	Possibly silicified limestone/sandstone Heavily veined and brecciated Localised shearing with graphite surfaces	Qtz-carb (white) veining, locally broken core due to veining. Qtz-carb (fawn) vein with sphalerite @ 151.60 45° to c/A Pyrite/sphalerite ?vein @ 152.05 65° to c/A.	94	150.15	152.1		
152.1	152.95	100	3	Pos	Interbedded fine grained grey/dk grey sands, silts and shales; heavily veined; heavily sheared	Shear planes 45° to c/A- Qtz-carb (white) veining Minor disseminations + blebs of pyrite	95	152.1	152.95		
152.95	154.5	100		Posb	Sheared vein system; qtz carbonate veining with sheared ?sands, silts and shales.	Local zones of semi-massive pyrite with disseminated blebs of sphalerite + minor galena 152.95 – 153.20m assayed	96	152.95	154.5		

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 11 of 14

TENEMENT NAME STONEHENGE No.

359733E

CO-ORDINATES 5359462N AZIMUTH 200 AMG DRILLERS DDTAS COMMENCED 8.6.95 DEPTH 209m HOLE No. 2531

PLAN – MAP REFERENCE

RL COLLAR INCLINATION -50° DRILL TYPE C650 COMPLETED 29.7.95 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.....)
				Posb		Qtz-carb veining;					
						Pyrite scattered through altered country rock					
						153.87-154.12 Zone of Qtz-carb (fawn) veining with dissem blebs of sphalerite and small zones of semi-massive & massive pyrite 75° t c/A. Vein system upper contact 75° t c/A.					
						154.12-154.50 Black shale/sheared siltstone with pyrite, white qtz vein 5cm 70° t c/A.					
154.5	156.2	100	2f	Posb	Semi massive pyrite ?vein Minor black shale zones, shear planes (graphitic)	Dissem blebs of sphalerite locally <1%; interstitial white quartz. Minor fawn coloured dol veining at bne	93	154.5	156.2		
156.2	156.7	100	2	Posb	Semi massive pyrite zone with fawn coloured dolomite veins localised brecciation.		98	156.2	157.87		
156.7	157.87	85		Posb	Fawn coloured dolomite veining with minor dissem and veinlets of pyrite; host rock appears to be grey ?sandstone with shearing along graphitic shale beds	Minor galena blebs					

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 12 of 14

TENEMENT NAME STONEHENGE No.

PLAN – MAP REFERENCE

CO-ORDINATES 5859462N 359733E AZIMUTH 200 AMG DRILLERS DDTAS COMMENCED 8.6.95 DEPTH 209 m HOLE No. ZS31

RL COLLAR INCLINATION ~50° DRILL TYPE Ld 650 COMPLETED 29.7.95 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.....) Rec (From)	Rec (To)	Rec (m)	Rec (%)
157.87	158.31	100	3c	Posb	Black graphitic shale; heavily sheared.	Cleavage 55° to c/A Bedding (lower contact) 65° to c/A	99	157.87	158.31		170.5	171.0	0.5	100
											171.0	172.5	1.5	100
											172.5	174.0	1.5	100
158.31	159	95	2x	Psab	Light grey ? sandstone with fawn coloured dolomite veins	Zones of locally semi-massive pyrite and sphalerite (+/- galena)	5466200	158.31	159.0		174.0	175.5	1.5	100
											175.5	177.0	1.5	100
											177.0	178.5	1.5	100
159	162.8	100	2	Psab	Interbedded fin grained sands, silts and shales; heavily sheared; shale dominant. Becoming almost interlaminated from 161.5 to 162.8 m.	Qtz (+carb) veining and minor brecciation Minor pyrite. Variable bedding angle. @ 161.5 60° to c/A.	5466201	159.0	160.0		177.5	180.0	1.5	100
							2	160.0	161.5		180.0	181.5	1.5	100
							3	161.5	162.8		181.5	183.0	1.5	100
											183.0	184.5	1.5	100
											184.5	186.0	1.5	100
											186.0	187.5	1.5	100
162.8	165.5	100	1.	Pos	Quartzite dominant unit with minor interlaminations of silt and shale. Becoming more intermixed / intermingled. Less discrete bedding.	Minor quartz and fawn coloured dolomite veining; minor vein brecciation zones	4	162.8	165.5		187.5	189.0	1.5	100
											189.0	190.5	1.5	100
											190.5	192.0	1.5	100
											192.0	193.5	1.5	100
											193.5	195.0	1.5	100
165.5	166.1	100	1	Pos	Quartzite and shale unit (Black shales)	Zone is veined and sheared (cobbing); veining main qtz-carb with some fawn coloured dol veining.	5	165.5	167.50		195.0	196.5	1.5	100
											196.5	198.0	1.5	100
											198.0	199.5	1.5	100
											199.5	201.0	1.5	100
											201.0	202.5	1.5	100
166.1	171.1	100	2cb	Pos	Black shale unit with minor siltstone intercalations; becoming interlaminated and interbedded with fin grained qtzites towards base. Possible sheared base	Minor veining generally cleavage parallel. Minor qtz veining with pyrite associated with base of unit.	6	167.5	169.0		202.5	204.0	1.5	100
							7	169.0	171.1		204.0	205.5	1.5	100
											205.5	206.5	1.0	100
											206.5	208.0	1.5	100
											208.0	209.5	1.5	100
171.1	182.0	100	1	Poq	Grey massive qtzite unit	Some fawn dolomite veining (tension gashes) cut by later qtz veinlets.	8	171.1	174.0					
							9	174.0	177.0					
							10	177.0	180.0					

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 13 of 14

TENEMENT NAME STONEHENGE No.

359733 E

CO-ORDINATES 5359462N AZIMUTH 200 AMG DRILLERS DDTAS COMMENCED 8.6.95 DEPTH 209 m HOLE No. ZS31

PLAN – MAP REFERENCE

RL COLLAR INCLINATION -50° DRILL TYPE U650 COMPLETED 29.7.95 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.....)
182.0	190.5	100	1	Pcq	Grey quartzite with dark grey/black shale beds and laminae; quartzite predominant; with seam & occurs as shale/silt at base coarsening up the sandstone	Fawn coloured dolomite veining as tension veins and stringers	5466211	180.0	182.0		
							12	182.0	184.65		
						larger qtz(+/-carb) veins(white)	13	184.65	187.5		
						occur sporadically	14	187.5	189.0		
						@187.5 bedding 65° to c/A.	15	189.0	190.5.		
						188.4 – 188.8 :- dolomite breccia vein with galena in matrix; cavities filled with platy dolomite/ankerite.					
190.5	196.2	100	1	Pcq	Grey quartzite with only minor shale/silt zones.	Bedding @ 191.8 70° to c/A	16	190.5	193.5		
						@ 196.15 55° to c/A	17	193.6	196.2.		
						Minor fawn dolomite veining as tension gashes + stringers Early qtz veins 45° to c/A.					
196.2	205.7	100	1	Pcq	Intermixed and interbedded grey fine grained quartzites and silty shales. & Vuggy ? dolomite zone @199.9 – 199.2m. @204.5m possible synsedimentary breccia zone (although possibly fault related	Boudinaged textures; disrupted bedding due to tectonism	18	196.2	198.7		
							19	198.7	200.4		
						Fawn coloured dolomite veining as tension gashes + stringers	20	200.4	202.0		
							21	202.0	204.0		
						v. rare galena with dolomite.	22	204.0	205.7		
						Brecciated early white quartz veining.					
205.7	206.5	100	3x	Pcq	White qtz vein underlain by clay gouge with brecciated grey sandstone/qtzite fragments. Followed by white quartz vein.	Fault gouge possibly 65° to c/A	23	205.7	206.5		
						Vein contacts irregular		206.5	209.0		
206.5	209.5	100	1	Pcq	Grey quartzite with shaly siltstone units; predominately quartzite	White qtz veining; boudinage zones and zones of broken up.	24	206.5	208.0		
							25	208.0	209.5		

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 14 of 14

TENEMENT NAME STONEHEDGE No.

359733E

PLAN – MAP REFERENCE

CO-ORDINATES 5359462N AZIMUTH 200 AMG DRILLERS DD TAS COMMENCED 8·6·95 DEPTH 209·5m HOLE No. 2531

RL COLLAR INCLINATION -50° DRILL TYPE U650 COMPLETED 29·7·95 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.....)
					207·8-208·15	white quartz veining in a siltstone /shale unit; white qtz veining is large scale up to 20cm wide. Contacts non parallel. and are not variably angled & irregular					
				Pog	End of hole in grey quartzite @ 209·5m.						

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