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464012

SHEET No. ONE

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

435000 E 5411400 N

TENEMENT NAME SHEFFIELD No. 7/73

PLAN – MAP REFERENCE BARRINGTON PROSPECT

CO-ORDINATES 4850E 4900N AZIMUTH 210°m. DRILLERS OVERLAND COMMENCED 24·11·83 DEPTH 281·0 metres HOLE No. DD83LB4

RL COLLAR .... INCLINATION −48° DRILL TYPE WARMAN-SCOUT COMPLETED 02·12·83 CASING LEFT 6" PVC 8.5m NQ TO 50m DPO No(s) ....

DEPTH From (M)	DEPTH To (M)	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 AMLABS) Cu	Pb	Zn	Ag	Fe%	Co	As	Au
0.0	8.5	–			TRICONED – WEATHERED													
					TUFFACEOUS GRIT.													
8.5	22.8	12.31	NQ		TUFFACEOUS GRIT													
					Coarse grained tuffaceous acid volcanic	Mod. highly weathered to 13m. Mn +	1141217*	8.5	16.6	6.55	720	15	135	x	4.20	50	x	
					qtz eyes to 2mm. From 21.6 – 22.8	Fe staining. Several gossanous zones	1141218*	16.6	22.8	5.76	590	10	175	x	4.15	40	x	
					very broken – quite chloritic	13 + 13.5m + A zone more chloritic												
						alteration less weathering Fe on												
						joints and fractures 13.5 → 22.8m												
22.8	41.0	17.2	NQ		RHYODACITIC LAVA.													
					Generally pale red-brn mod jointed	Fe stained joints, mod fractured	1141219*	22.8	29.9	7.1	230	5	100	x	2.90	20	x	
					medium grained minor qtz eyes,	becoming more massive by 25 metres	1141220*	29.9	34.9	5.0	115	5	75	x	2.20	25	x	
					ferromag. mins. Fe staining on joints	Fe alt. along joints more intense but	1141221*	34.9	41.0	5.1	200	5	80	x	3.10	30	x	
					occ. dk gy sections more chloritic	less fracturing from 25 – 29.7m												
					zones.													
					29.7 – 32m fresher core (Feldspars	less Fe staining only sl-mod												
					still altered) – light brn	jointed.												
					32 – 34.9 core dk gy brn	ditto												
					34.9 – 39.7 – fresher core – light brn	ditto												
					39.7 – 41.0 V dk gn gy chloritic	qtz veined veins upto 2cm												
					lava													
						* GRIND SAMPLES.												

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. TWO

TENEMENT NAME SHEFFIELD No. 7/73

PLAN – MAP REFERENCE BARRINGTON PROSPECT

CO-ORDINATES 4850E 4900N AZIMUTH 210°m DRILLERS OVERLAND COMMENCED 24.11.83 DEPTH 281.0 metres HOLE No. DD83 LB4

RL COLLAR .... INCLINATION -48° DRILL TYPE WARMAN SCOOT COMPLETED 02.12.83 CASING LEFT 6" PC to 8.5 – NQ PC to 50m. DPO No(s) ....

DEPTH From (M)	DEPTH To (M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	Cu	Pb	Zn	Ag	Fe%	Co	As	Au
41.0	68.0	25.8	NQ		ALTERED LAVA													
					When fresher - lt brn Rhyodacitic lava	generally Fe stained, chlorite altn	1141222*	41.0	44.9	3.4	755	5	90	x	2.75	25	x	—
					but very Fe stained weathered altered	masked by Fe. Mod to highly fractured	1141223*	44.9	48.0	3.1	1100	5	125	x	4.95	40	x	—
					-rock hard to describe.	weathered on joints minor manganese	1141224	48.0	49.0	1.0	1.86%	125	275	5.0	10.18	25	x	0.05
					57-60m thin zone containing	staining -	1141225*	49.0	52.9	3.8	3550	30	75	4.5	3.45	30	x	—
					rounded lava clasts within	5% Cp 48-49m - red haematitic	1141226*	52.9	57.0	3.9	465	20	85	x	3.10	30	x	—
					formation.	rich core associated with minz.	1141227*	57.0	60.0	3.0	245	20	100	x	5.90	25	x	—
							1141228*	60.0	64.7	4.3	375	20	125	x	9.55	30	x	—
							1141229*	64.7	68.0	3.3	135	15	75	x	4.20	25	x	—
68.0	69.7	1.7	NQ		Breccia Conglomerate													
					Granitic, tuffaceous, lava, chert													
					clasts well rounded in siliceous													
					volcanic matrix.													
69.7	111.8	34.0	BQ		Altered lava													
					Pale yellow brn - mod grn gy	Less Fe in system. Mod jointed												
					lava. Feldspars show alteration	some joints weathered to feldspathic												
					Occ clasts but could be due to	matrix. Very little sulphides.												
					differential weathering features.	84.5 thin 1.5cm qtz-carb vein minor py												
					Large lava clasts - 93.5-95.0m	occ sections of core dk grn gy												
					yellow-brn in mod grn-gy lava	chlorite alteration - moderate-strong												
						Core much more broken 95-101 metres.												
111.8	138.3	26.1	BQ		Rhyodacitic lava													
					Mod gy sl chloritic altered lava	Qtz-carb vein 3cm wide at 115.2m												
					with zones of fresh mod reddish-brn	Sl-mod fractured - fine flattened												
					med grained qtz-feldspar phenocrysts Occ	pyrite on fractures - joint planes.												
					clasts of volcanic matter. Zone	Occ lava clasts to 4cm from												
					[illegible]	123-138.3 m												

ASSAY VALUES (Analysed by ANALABS)

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

SHEET No. THREE
TENEMENT NAME SHEFFIELD No. 7/73
PLAN – MAP REFERENCE BARRINGTON PROSPECT
CO-ORDINATES 4850E 4900N AZIMUTH 210°m DRILLERS OVERLAND COMMENCED 24.11.83 DEPTH 281.0 metres HOLE No. DDB3 LB4
RL COLLAR ..... INCLINATION –48° DRILL TYPE WARMAN SCOUT COMPLETED 02.12.83 CASING LEFT NQ TO Something DPO No(s) .....

DEPTH From (M)	DEPTH To (M)	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.....)
138.3	143.2	4.5	BQ		BRECCIO – CONGLOMERATE Haematitic breccia conglomerate. well rounded + angular fragments set in a volcanic matrix. Clasts include granite, chert, lava and Tuffs	Sl fractured. First 0.7m very fractured infilled with qtz-carb veinlets then 0.2–0.3m wide fault zone – infilled with int dyke? Light cream–grey colour. V. occ specks of Cp (eg) 143m.					
143.2	144.5	1.3	BQ		INTERMEDIATE DYKE Pale gy–gy intermediate ? dyke	Feldspar phenocrysts show alt^{n} to kaol. sl. chloritic. contacts show int LS 60° to core axis.					
144.5	154.0	9.5	BQ		Breccio–CONGLOMERATE Haematitic breccia conglomerate. well rounded and angular fragments set in a volcanic matrix. Clasts include granite, chert, lava + tuffs	Fairly massive unit. Clasts angled at 45° to core axis.					
154.0	158.0	4.0	BQ		Sheared BRECCIO – CONGLOMERATE Pale gy sst haematite rich zone	Very fractured infilled with qtz-carb veins – make up 50% of core N.V.m.					
158.0	206.5	48.5	NQ		BRECCIO – CONGLOMERATE Grey breccia–conglomerate – little haematite. Clasts upto 6cm diameter much larger than previous. Thin mod gy lava flows? upto 20cm 161, 167m – int LS 50°	Quartz–carb veining infilling fractures					

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

SHEET No. FOUR
TENEMENT NAME SHEFFIELD No. 7/73
PLAN – MAP REFERENCE BARRINGTON PROSPECT

CO-ORDINATES 4850E 4900N AZIMUTH 210°m DRILLERS OVERLAND COMMENCED 24·11·83 DEPTH 288·0 metres HOLE No. DD83 LB4
RL COLLAR ..... INCLINATION −48° DRILL TYPE WARMAN SCOUT COMPLETED 02·12·83 CASING LEFT 50m of NQ CASING DPO No(s) .....

DEPTH From (M)	DEPTH To(M)	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 ANALABS) Cu	Pb	Zn	Ag	Fe%	Co	As	Au
					Occ green fracture mineral as previously described through core	At 172 qtz-carb vein almost // to core axis over 1m. O												
					At 183m blackish silt/shale/clast band in qtz-carb vein – 10-15% Cp similar to LB3. vein material NVM.	Also large qtz carb vein at 183.2m N.V.M.												
						Sl. chlorite alt on joints 186m												
						A most unusual fractured green ash siltstone clast approx 15cm diameter occurs at 188·5m												
						General trend of clast alignment about 70° to long core axis.												
						Fairly cleaved + veined for last 1·5m.												
206·8	257·6	477	BQ		RHYODACITIC LAVA													
					Med red-br lava mica clasts dk gy black chlorite on joints	Mod fractured + jointed mica qtz-carbonate veins. Zone developed	1141214	224·9	225·8	0·9	1400	170	100	0·5	8·40	50	x	–
					Core fairly massive		1141215	225·8	226·3	0·5	4·78%	310	115	36	9·30	515	500	3·16
					134–136m more silty-clasty layer – seems slightly cleaved – rock unrecognisable as volcanic but phenocrysts broken down	more chlorite alteration bands similar to LB3.	1141216	226·3	227·6	1·3	720	25	150	0·5	8·85	35	x	–
						Zone of qtz-carb veining 219·6–225 N.V.M.												
						225–227 Cp > py but not in highly chloritic zone but mica chlorite alt^n	1141201	254·0	256·6	2·0	95	115	180	1·0	6·85	40	x	–
						Generally dk gy-gy chloritic zone have slightly more 5^{cm} min^2 but only slight	1141202	256·6	257·6	1·0	95	85	165	0·5	7·45	40	x	–
						147·5 8cm wide qtz-carb vein.												
						Minor epidote alt^n												

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

SHEET No. FIVE

TENEMENT NAME SHEFFIELD No. 1/73

PLAN – MAP REFERENCE BARRINGTON PROSPECT

CO-ORDINATES 4850E 4900N AZIMUTH 210°m DRILLERS OVERLAND COMMENCED 24·11·83 DEPTH 281·0 metres HOLE No. DD83 LB 4

RL COLLAR ..... INCLINATION −48° DRILL TYPE LONGYEAR SCOUT COMPLETED 02·12·83 CASING LEFT Some to NQ DPO No(s). 20246

DEPTH From (M)	DEPTH To (M)	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 ANALABS) Cu	Pb	Zn	Ag	Fe%	Co	As	Au
257·6	281·0	20·6			TUFF SHALE													
					Black – very dk gy siltstone-shale	Very fractured, bedding displacements	114203	257·6	258·9	1·3	1350	300	1925	0·5	8·30	45	X	—
					fraction	always structures mica py > sp	114204	258·9	260·3	1·4	515	205	1400	1·0	5·45	40	x	0·01
					At 268 m thin green silt bands	Occ gn + sp speck seen.	114205	260·3	261·9	1·6	820	100	1850	1·0	5·25	45	x	x
					more siliceous? bands appear.	Thin sp rich vein at 261·4m.	114206	261·9	264·0	2·1	65	35	265	0·5	4·0	50	x	x
					At 269 40cm lava zone well	At 264m mica pyrite found on	114207	264·0	266·0	2·0	50	30	160	0·5	3·75	40	x	—
					altered	bedding planes.	114208	266·0	268·4	2·4	340	255	2900	1·0	4·15	45	x	—
					Volcanic tuff 275·3 – 276·8 (1·5m)	Very large ore loss over last	114209	268·4	270·5	2·1	50	45	750	0·5	6·50	35	x	—
					Sphalerite rich?	3 metres of hole.	114210	270·5	273·0	2·5	895	50	1100	1·0	5·20	35	x	—
					Bed LS 40° at start decreasing	Graded bedding, off sediment deformation	114211	273·0	275·3	2·2	140	200	3600	1·0	5·80	45	X	—
					to 30° at end	indicate the shale are younging	114212	275·3	276·8	1·5	3150	40	1650	2·0	9·85	55	x	—
						down hole.	114213	276·8	281·0	2·2	1200	30	615	1·0	9·25	70	x	—
						INTERVAL BOREHOLE SURVEY												
						0 m 210° m −48°												
						245 m 215° m −46°												
						BEST INTERSECTIONS		225·8	226·3	0·5	4·78%	310	115	360	9·3%	515	500	3·16
								48·0	49·0	1·0	1·86%	125	275	5·0	0·18%	25	x	