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

SHEET No. 185

TENEMENT NAME LAKE BARINGTON No. ....

LOGGED BY: J. COOPER

CO-ORDINATES 4600E 4978N AZIMUTH 213° MAG DRILLERS PARRY COMMENCED 29.10.80 DEPTH 298m HOLE No. 2280 LB.2  
 RL COLLAR INCLINATION 46.5° DRILL TYPE BOYLES COMPLETED 19.11.80 CASING LEFT 21m NW (12-33m) DPO No(s) 26476

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 (Analyzed by ZINC CORP.) PPM.						
From (M)	To (M)										Pb	Zn	Cu	Ag	Au		
0	3				TRICONE 2 - NO CORE.												
3	27.4	24.2	NQ		BRECCIO-CONGLOMERATE. With alternating siltstone and shale. Bedding $\angle$ ca. varies 5°-85°, average 30°. Graded bedding in siltstone facing? down hole.	Pyritic seams, mod oxidised, at: 22.1m, 22.4m, 22.8m, 23.1-23.8m > 5% sulphides.											
27.4	49.5	24.3	NQ		SILTSTONE AND SHALE Pale grey, banded. Graded bedding facing down the hole? Bedding $\angle$ ca 20°.	31.5m > 10% sulphides. Trace disseminated py 36.9m. Carbonate veins.	86002 <sup>+</sup>	21	24	3	27	53	620	1			
							003 <sup>+</sup>	24	27	3	7	94	150	<1			
							004 <sup>+</sup>	27	30	3	7	76	130	<1			
							005 <sup>+</sup>	30	33	3	7	49	110	<1			
49.5	50.0	0.5	NQ		TUFF Fine grained, siliceous, brecciated												
50.0	51.7	1.4	NQ		INTERMEDIATE LAVA OR INTRUSIVE Soft, pale green, altered (sericite + carbonate). Frequent amaranite-chalcedony amygdaloid 1-2mm. Sericified plagioclase phenocrysts.	$\angle$ ca 60° at 51.7m. Petrological sample 795600 taken at 51m.											
51.7	53.0	0.9	NQ		BROKEN ZONE Clay and Tuff-shale breccia.												
53.0	54.6	1.50	BQ		TUFFACEOUS GRIT. Fine to medium grained, quartzose, gritty, partly brecciated.												

+ - indicates grind sample.

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

TENEMENT NAME LAKE BARRINGTON No. ....

LOGGED BY: J. COUPER

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH 298m..... HOLE No. DD 90 LB 1

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 26476, 182

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 <u>ZINC CORP.</u> )								
From (M)	To (M)										Pb	Zn	Cu	Ag	Au				
54.6	73.9	19.4	BQ		<u>TUFFACEOUS GRIT - CONGLOMERATE</u> <u>Shale and siliceous fuff</u> <u>55.2 - 56.2 m.</u>	<u>Minor Qtz-carbonate veins, often</u> <u>leached, pyritic mineralisation</u> <u>associated with the veins.</u> <u>61.3 - 61.8m &gt; 5% sulphides</u> <u>68m, 68.4 - 68.6m &gt; 10% sulphides</u>	816006 <sup>+</sup> 007 <sup>+</sup> 008 <sup>+</sup> 009 <sup>+</sup>	60 63 66 69	63 66 69 72	3 3 3 3	9 11 9 9	70 60 49 55	77 44 160 110	<1 <1 <1 <1					
73.9	74.2	0.3	BQ		<u>ALTERED INTERMEDIATE LAVA OR</u> <u>INTRUSIVE,</u> <u>cf 50 - 51.7 m.</u>	<u>Banding &lt; ca 45°</u>	816010 <sup>+</sup> 11 <sup>+</sup> 795522 23	81 84 87 88	84 87 88 89	3 3 1 1	11 37 46 24	84 100 74 32	410 260 4600 2900	<1 1 2 1	<0.04 <0.04				
74.2	91.0	16	BQ		<u>TUFFACEOUS GRIT</u> <u>Minor siliceous zones. Coarse</u> <u>banding.</u> <u>Puggy broken zone 90.9 - 91m.</u>	<u>Py + cp? - minor, in veins +</u> <u>fractures.</u> <u>Py &gt; 10% in glass breccia</u> <u>zone 84.6 - 85.1m.</u>	816013 <sup>+</sup> 14 <sup>+</sup> 15 <sup>+</sup> 16 <sup>+</sup>	90 93 96 99	93 96 99 102	3 3 3 3	33 18 17 12	43 96 75 57	220 320 180 310	1 1 1 <1	<0.04				
91.0	141.8	50.4	BQ		<u>PORPHYRITIC RHYOLITE LAVA,</u> <u>Pale colored, with quartz</u> <u>phenocrysts and sericitised</u> <u>feldspar phenocrysts, in</u> <u>sericitic, carbonated groundmass.</u> <u>Weak flow banding.</u> <u>Metological samples: 795599</u> <u>at 97m + 795598 at 140m.</u>	<u>1-2% py ± cp, in veins and</u> <u>irregular, assoc ± common</u> <u>Qtz-carbonate veinlets and</u> <u>ferruginous alteration, down to</u> <u>approx 118m</u> <u>118 - 125m: Abundant py up to</u> <u>10% sulphides in veins and</u> <u>irregular with subordinate Qtz carb</u> <u>125 - 141.8m: Minor veining with</u> <u>traces of py + cp.</u>	17 <sup>+</sup> 18 <sup>+</sup> 19 <sup>+</sup> 020 <sup>+</sup> 021 <sup>+</sup> 22 <sup>+</sup> 23 <sup>+</sup> 24 <sup>+</sup> 25 <sup>+</sup> 26 <sup>+</sup> 27 <sup>+</sup>	102 105 108 111 114 117 120 123 126.7 129 132	105 108 111 114 117 120 123 126.7 129 132	3 3 3 3 3 3 3 3 3 3	11 16 9 11 13 39 39 25 11 27 21	59 67 75 170 149 124 107 73 91 250 330	210 89 200 210 180 230 190 270 120 230 340	<1 <1 <1 <1 <1 1 1 1 <1 <1 <1					
141.8	153.7	11.7	BQ		<u>TUFFACEOUS GRIT - CONGLOMERATE</u> <u>As above. Black shale clasts</u> <u>common.</u>	<u>Minor pyritic seams. 10cm</u> <u>Qtz vein ± trace py-cp at</u> <u>151.3m. Banded py 153.9 - 154m</u> <u>&gt; 10% sulphides.</u>	816029 <sup>+</sup> 28 <sup>+</sup>	138 135	141 138	3 2.8	4 13	56 165	1260 480	<1 <1					

+ - indicates wind sample.

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

SHEET No. 395

TENEMENT NAME LAKE BARRINGTON No. ....

LOGGED BY: J. CAUPER

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... 298 M..... HOLE No. DD 80 LB2

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 26, 82, 84, 87

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 ZINC LAB)				
From (M)	To (M)										Pb	Zn	Cu	Ag	Au
153.7	170	12.3	BQ		ACID INTRUSIVE (GRANOPHYRE) Py > cp in gbs breccia Fine grained, crudely banded < 45°/ca. 154.5-154.7m. Qtz-carb Altered - sericite, calcite, Sericitized feldspar phenocrysts. Qtz-carbonate veins common. Breccia zone 168.6-169.7m Petrological sample 795597 taken at 167.7m.	Py > cp in gbs breccia veins common. Minor py = trace cp in veins + blebs = < 2%. Rare blebs of gn in carbonate.	795519	153	153.7	0.7	26	83	450	< 1	< 0.04
							20	153.7	155.1	1.2	75	85	1140	3	< 0.04
							21	155.1	156	0.8	190	62	190	1	< 0.04
							795526+	156	159	1.65	520	151	190	1	
							27+	159	162	0.95	400	156	1030	3	
							816031+	162	165	3	86	178	1000	2	
							32+	165	168	3	67	230	1560	3	
							33+	168	171	3	470	890	3000	6	
170	195.50	25.2	BQ		ALTERED RHYOLITIC TUFFS Mainly f.g. altered (sericite - carbonate) vitric tuff or vitric crystal tuff with small qtz eyes Silty to sandy texture with rare lithic clasts. (rude banding. (10° < Ca @ 182.5-188.9m) Py in crush zones 170-182.5m Brecciation 188.9-193.2m Bedding 20° < Ca at 193m. Petrological samples: 795596 @ 179m; 795594 @ 187m.	170-182.5m: Py > cp 1-5% in veins, trace disseminated sulphides. Qtz-carbonate veins common. 182.5-188.9m: Cp > py up to 2% assoc. w/ qtz-carb veins. Massive irregular cp in breccia at 182.5m.	34+	171	174	3	45	158	2100	4	
							35+	174	177	2.7	30	350	1410	2	
							36+	177	180	3	16	91	1720	2	
							37+	180	183	3	58	340	2000	2	
							38+	183	186	3	42	280	340	1	
							816039+	186	189	3	30	97	1490	2	
							795516	189	190	0.95	26	55	1380	2	< 0.04
							17	190	191	1	39	68	8300	11	< 0.04
							18	191	192	1	1660	2700	7000	11	< 0.04
							816041+	192	195.5	3.5	4.1	150	530	1	
							42+	195.5	198	2.5	21	124	380	< 1	
195.50	205.90	9.2	BQ		TUFF-SHALE fine grained, finely banded, dark grey with siliceous silty bands < Ca 25°.	Upper contact < Ca 60° on qtz vein Qtz-carb veins common often in bedding (1-2mm). Trace py.									

- incl. to wind tunnel

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

SHEET No. 485

TENEMENT NAME LAKE BALDWINSON No. ....

LOGGED BY: J. COOPER

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... 298m..... HOLE No. DD 80 13.2

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 26482, 76, 84

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 (Analyzed by ZC, .....				
From (M)	To (M)										Pb	Zn	Cu	Ag	Au
205.90	212.30	6.6	BQ		INTERMEDIATE INTRUSIVE OR LAVA (MICRODIDRITE?) Coarse gr. Porphyritic, with ferritized feldspars - conspicuous. Lesser altered pyroxene phenocrysts, in sericite-carbonate groundmass. Distinct pale green color. Weak flow banding. Petrological sample 795595 at 207m	Scattered fine gr. carb veins. Nil sulphides.	816043 <sup>+</sup>	213	216	3	760	980	170	<1	
							44 <sup>+</sup>	216	219	3	360	1040	62	1	
							45 <sup>+</sup>	219	222	3	470	2300	830	3	
							46 <sup>+</sup>	222	225	3	44	133	360	<1	
							795513	225	226	1	26	40	160	1 <0.04	
							14	226	227	1	61	60	5600	4 <0.04	
							15	227	228	1	22	47	520	1 <0.04	
							795528 <sup>+</sup>	228	231	3.1	57	96	1330	2	
							29 <sup>+</sup>	231	234	2.95	70	86	540	1	
							795530 <sup>+</sup>	234	237	3	24	61	600	1	
22.30	226.2	13.90	BQ		TUFF-SHALE As before. Finely banded <ca 30° Many gr. carb veinlets, much carbonate in breccia 225.9-226.2m	Trace cp + Gn - veins + fractures. In breccia: trace cp + py	31 <sup>+</sup>	237	239	2	58	87	550	1	
							32 <sup>+</sup>	239	241	2	30	64	870	1	
							816048 <sup>+</sup>	241	244	3	16	67	660	2	
							49 <sup>+</sup>	244	247	3	22	81	830	2	
							795509	247	248.5	1.5	30	68	6000	4 <0.04	
276.2	282	55.10	BQ		ALTERED RHYOLITIC TUFFS. Largely poorly-sorted, sandy, lithic-vitric crystal tuff. (Petrologist says probably subaerial) - see samples 795592 at 255m + 795591 at 270m; 795593 at 233m Moderately altered - (gr-sericite -carbonate) and weakly schistose Small gr eyes, sericitized Relaxer phenocrysts, also shards and vague lithic clasts of tuff and lava. Some black shale clasts 247-250m, Matrix now gr-sericite-carbonate after glass.	Heavy cp > sp(?) in gr-carbonate at 226.8-226.9. Banded py 241.4-241.5m. Gr-carb veins common (predate the weak schistosity as all are stressed), e py > cp. esp: 237.2; 237.9; 237; 246.8-247.5; 249.1-249.9; 250.5-251.4; 258.7; 265.5. Heavy cp in 4x10mm veins 271-271.6m. Total cp ≈ 3% 273m-279.1m (inc 40mm gr-carb vein 273.3m) 279.1-280.4m > 10% sulphides. from 280.4m, trace only cp + py.		10	248.5	250	1.5	35	67	4000	3 <0.04
							11	250	251.5	1.5	28	53	630	1 <0.04	
							12	251.5	253	1.5	190	270	1720	2 <0.04	
							816052 <sup>+</sup>	253	256	3	58	128	1600	3	
							795533 <sup>+</sup>	256	259	3	28	130	810	1	
							34 <sup>+</sup>	259	262	3	14	47	500	1	
							35 <sup>+</sup>	262	265	2.96	15	60	300	1	
							36 <sup>+</sup>	265	268	3	23	87	1350	2	
							816053 <sup>+</sup>	268	270	2	11	69	630	<1	
							795501	270	272	1.85	12	30	3400	3 <0.04	
							02	272	274	1.8	12	32	4500	3 <0.04	
							03	274	276	1.85	16	68	2900	2 <0.04	
							04	276	278	1.95	16	71	1580	2 <0.04	
							05	278	280	2	14	71	6700	4 <0.04	
							06	280	282	2	14	55	2000	1 <0.04	

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

SHEET No. 5 of 5

TENEMENT NAME LAKE BARRINGTON No. ....

LOGGED BY: J. COOPER

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. DD 80 LB.2

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 26182, 76, 84

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 <u>ZC</u> )							
From (M)	To (M)										Pb	Zn	Cu	Ag	Au			
					<i>Some very fine gr siliceous vitric tuff and minor banded shale, 273.7-282 m.</i>													
282	298	16.2	30		<b>TUFF-SHALE</b> <i>Siliceous. Mainly finely banded dark shale with pale siltstone bands as above (vitric tuff). ∠ ca 10°-30° Rock generally harder-silicified</i>	<i>Wt.-carb veins common. Good traces of cp + py in veins esp // to bedding. 10mm cp vein at 293.3m.</i>	795507	282	284	1.7	9	21	2500	1	<.04			
							08	284	286	2.2	6	17	1240	1	<.04			
							816062 <sup>+</sup>	286	288	1.9	5	53	850	<1				
							795537 <sup>+</sup>	288	290	2	18	47	110	<1				
							38 <sup>+</sup>	290	292	2.05	26	52	930	2				
							39 <sup>+</sup>	292	294	2.05	32	94	3400	2				
							40 <sup>+</sup>	294	296	2	16	44	230	<1				
							41 <sup>+</sup>	296	298	1.7	27	53	130	2				
					<b>END OF HOLE.</b>													

EASTMAN DOWNHOLE CAMERA SURVEYS:

Depth:	Azimuth	Dip
30m	213°	-44.5°
60m	212°	-44.5°
90m	212.5°	-43.5°
120m	213°	-42°
150m	213°	-40.5°
180m	213°	-40.2°
210m	213°	-38.3°
240m	215°	-36.5°
270m	215°	-33°

Best Intersections:

Int.								
87	89	2	35	53	3750	1	<.04	
190	192	2	850	1385	7650	11	<.04	
226	227	1	61	60	5600	4	<.04	
247	250	3	32	67	5000	3	<.04	
270	286	16	13	46	3100	2	<.04	
inc: 278	280	2	14	71	6700	4	<.04	

+ - indicates grind sample