054

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

SHEET No. 1

TENEMENT NAME TENTH LEGION No 52 M/75

PLAN – MAP REFERENCE TASH 2 TASH 19

CO-ORDINATES 4080·43N 5478·25E AZIMUTH 220° GRID DRILLERS S. RIMAK COMMENCED 10·4·81 DEPTH 200·10 m HOLE No. TLC7

RL COLLAR 241·62 INCLINATION -50° DRILL TYPE BOYLES 37 COMPLETED 23·4·81 CASING LEFT NIL DPO No(s) 26671, 26672 30101

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) D.P.O. 26672 GRINDS x 2 INCCORP/COMLAB Cu	Pb	Zn	Ag	Sn	W	Au			
					TRICONED TO 6·0m - NO CORE.															
6·0	7·5	0·2	NQ to	?M/Lst	6·0 – ?19·4 ?WEATHERED LIMESTONE WITH MAG	6·0-19·4? 5-10% magnetite dissem. in	932121	6·0	7·5	0·2	355	120	2950	x	10	15				
7·5	10·3	0·3	51·0m		Soft ochreous brown and yellow	yellow clay.	122	7·5	10·3	0·3	360	250	2500	x	8	25				
10·3	13·5	0·2			weathered rock		123	10·3	13·5	0·2	275	120	4100	x	15	50				
13·5	16·5	0·3		Lss?	?19·4 – ?21·3 ?CALC SILICATE SKARN.	?19·4-21·3 Py 20% of recovered core	124	13·5	16·5	0·3	170	85	4300	x	15	50	0·017			
16·5	19·5	0·5			White and yellow altered rock - originally	, mag 3-5%, in irregular bands.	125	16·5	19·4	0·4	195	60	6000	5·5	7	45				
19·5	20·7	0·4			Lst? , with abundant pyrite.		126	19·4	21·3	0·5	70	15	1150	1·5	15	x				
20·7	28·5	7·4		Lst	?21·3 – 127·1 LIMESTONE.	21·3-24·4 Granular texture with blebs	127	21·3	22·7	1·4	50	5	125	1·0	5	x				
28·5	31·5	3·0			Grey limestone, weakly silicified, minor	py in irregular stringers 10-15%, po 3-5%	128	22·7	23·8	1·1	90	10	100	0·5	x	x	x			
31·5	34·5	2·9			black alteration, and heavily impregnated	, finely dissem mag? 10%-15%.	129	23·8	24·4	0·6	150	20	1300	x	x	10				
34·5	37·5	3·1			with pyrrhotite and pyrite to 24·4 m.	24·4-29·4 po 7-10%, finely dissem.	130	24·4	25·9	1·5	25	10	95	x	x	x				
37·5	40·5	3·0			24·4 - 33·2 Grey crystalline limestone	throughout; finely dissem mag 2-3%	131	25·9	27·5	1·6	55	10	70	x	8	x				
40·5	43·5	3·0			with extensive brecciation and black	29·4 – 33·2 po, py 5% in thin irregular	132	27·5	28·8	1·3	50	10	120	0·5	x	x	x			
43·5	46·5	3·0			alteration (ultrabasic mag) along fractures	veinlets and stringers. Ultrabasic mag 1-2%	133	28·8	29·4	0·6	15	15	105	x	x	x				
46·5	49·5	3·0			, some portions almost black.	33·2 – 39·3 po, trace → 1%, weak trace	134	29·4	30·1	0·7	10	15	50	0·5	x	x				
49·5	51·0	1·5			33·2 - 39·3 Pale grey brecciated Lst, less	magnetite, pyrite. Occasional blebs py to	GRIND SAMPLES													
51·0	52·5	1·4			black alteration than the above. Rare	2 x 3 cm.	932709	30·1	33·2		6	1	53	2	<4	<10				
52·5	55·5	3·0			thin fractures filled with grey-green serp.	39·3 – 52·6 po 5-7%, dissem along	710	33·2	36·2		4	5	138	2	<4	<10				
55·5	58·5	3·0			39·3 – 59·6 As for 24·4 - 33·2	black fractures; some ultrabasic mag?	711	36·2	39·0		3	5	193	2	<4	<10				
58·5	61·5	3·0			48·6 - 49·0 Hard white intervals to 5cm	po locally 15%, variable down to 2%	712	39·0	42·0		7	10	92	1	6	15				
61·5	64·5	3·0			, contacts 70-80° LCA. - calc silicate	Mag seems to replace po in the more	713	42·0	44·9		5	4	41	1	<4	<10				
64·5	67·5	3·0			alteration, has some black serpentinite bands	altered dark serpentinous beds. Pyrite is	714	44·9	47·8		2	18	198	1	<4	<10				
67·5	70·5	3·0	51·0		51·0 Banding (bedding?) 50°	variable, usually intergrown with pyrrhotite	715	47·8	50·7		3	12	240	1	<4	15				
			↓ 200·10 BQ CORE		52·2 – 55·8 Patches of hard creamy	52·6 – 59·6 po, py 2-3%, ultrabasic mag	716	50·7	54·5		4	11	640	1	6	15				
					coloured dolomite interbanded with calcite	2%-5%? - rock is heavy and slightly	717	54·5	56·6		9	9	920	1	<4	10				
					59·6 - 68·3 As for 33·2 - 39·3, gradually	magnetic.	718	56·6	59·6		9	5	860	1	6	10				
					becomes harder and more dolomitic	59·6-68·3 po, py 2-3% as irregular	719	59·6	62·6		18	9	153	1	4	25				
					- less reactive to acid. Some white and	veinlets and stringers, trace ultrabasic mag	720	62·6	65·6		5	7	53	1	4	<10				
					62·7 Banding 60° pale green bands of	in darker portions of the rock.	721	65·6	68·6		7	6	143	1	<4	<10				
					? calc silicate rock to 10-15cm															
					appear sporadically.															

055

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

SHEET No. 2
TENEMENT NAME TENTH LEGION No. 52 M/75
PLAN – MAP REFERENCE
CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No. TLC 7
RL COLLAR INCLINATION DRILL TYPE COMPLETED CASING LEFT 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) Cu	Pb	Zn	Ag	Sn	W	Au
70·5	73·5	3·0	BQ		68·3–78·2 Gradually becomes darker grey – uniform massive pale grey rock with thin films of black and green(serp) along brecciation paths. 70·4 ? Bedding 57°	68·3–78·2 po 1-2%, py <1% as veinlets and stringers. Traces f.gr. mag.	932722	68·6	71·4		12	6	150	1	<4	10	
73·5	76·5	3·0	↓				723	71·4	74·3		26	7	150	1	<4	15	
76·5	79·5	3·0					724	74·3	77·4		30	333	410	2	<4	25	
79·5	82·5	3·0					725	77·4	80·3		4	5	32	1	4	<10	
82·5	85·5	3·0					726	80·3	83·3		1	5	26	1	<4	<10	
85·5	88·5	3·0			78·2–84·5 Light grey massive type)	78·2–81·1 po, finely disem 1%	727	83·3	86·2		7	2	29	1	<4	15	
88·5	91·5	2·9			as for 33·2–39·3	, weak pyrite veinlets, finely disem	728	86·2	89·3		6	20	56	1	<4	10	
91·5	94·5	3·0			84·5–88·1 See 68·3–78·2 for description	mag 5-7%.	729	89·3	92·3		33	3	75	2	<4	10	
94·5	100·0	0·3			88·1–94·7 See 78·2–84·5; 33·2–39·3	81·1–84·5 po in veinlets and stringers	730	92·3	100·5		2	6	107	2	4	<10	
100·0	100·5	40				2% blebs along brecciation paths. Trace	731	100·5	103·6		2	3	39	2	<4	10	
100·5	103·5	2·8				py, fine gr mag in black haloes	732	103·6	106·6		4	9	47	1	<4	<10	
103·5	106·5	3·0				84·5–88·1 po 3-5%, mag 2-3%	733	106·6	109·6		3	1	42	1	<4	<10	
106·5	109·5	3·0				88·1–94·7 As for 68·3–78·2	734	109·6	112·6		2	1	18	1	<4	<10	
109·5	112·5	3·0		nc	CAVITY 94·7m – 100·1m.		735	112·6	117·0		2	5	24	1	<4	<10	
112·5	115·5	3·0		Lst	100·1–112·1 Pale grey fine grained	100·1–106·8 Very finely disem po	736	117·0	121·5		3	4	40	1	6	<10	
115·5	118·5	3·0			limestone, with lighter coloured	in matrix 1-2%, occasional blebs.	737	121·5	124·6		9	4	58	1	6	20	
118·5	121·5	3·0			recrystallised patches. Finely bedded;	106·8–112·1 Trace f.gr. po.	738	124·6	127·5		27	4	43	1	<4	10	
121·5	124·5	3·0			minor green and black serpentinite												
124·5	127·5	3·0			alteration in fractures to 5mm, widely												
					spaced. Becomes lighter coloured after 106·8m												
					106·8 Bedding 35°.												
					111·9 Bedding 80°.												
					112·1–119·0 Pale grey massive crystalline	112·1–119·0 po, 1% as veinlets and											
					lst, as above 33·2–39·3, minor	blebs; trace magnetite.											
					10cm – 0·4m of pale grey limestone												
					(unaltered), as for 100·1–112·1.												
					119·0 – 127·1 pale grey massive l'st with	119·0 – po 2-3%, some blebs to											
					more abundant black alteration, more	2cm, f.gr. disem mag 5-7%.											
					distinct alteration zones. Some minor												
					intervals of white and pink/green calc												
					silicates.												

056

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

SHEET No. 3
TENEMENT NAME TENTH LEGION No 52M/15
PLAN – MAP REFERENCE
CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No. TLC7
RL COLLAR INCLINATION DRILL TYPE COMPLETED CASING LEFT 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.....) Cu	Pb	Zn	Ag	Sn	W	Au
127.5	130.5	3.0			122.0 Bedding 65°			GRIND	SAMPLES								
130.5	133.5	3.0		Cst/lst	Contact 55° 127.1 – 132.6 ALTERNATING CALC	127.1 – Pink garnets and traces	932739	127.5	130.5		19	7	69	1	10	10	
133.5	136.5	3.0			SILICATES AND LIMESTONE.	of epidote in calc silicate bands	740	130.5	133.5		27	5	53	1	8	15	
136.5	139.5	3.0			Tough white and bone coloured	, trace po, f.gr. mag. in lst.	741	133.5	136.5		10	10	35	0.5	×	×	
139.5	142.5	3.0			calc silicate intervals 10cm – 1.0m		742	136.5	139.5		5	10	65	×	×	×	
142.5	145.5	3.0			with thin interbeds of grey crystalline		743	139.5	142.5		5	10	40	×	×	×	
145.5	148.5	3.0			limestone		744	142.5	145.5		×	15	50	×	6	10	
148.5	151.0	2.5			Contact 70°		745	145.5	148.5		×	10	50	×	×	×	
151.0	154.1	3.1		Lst	132.6 – 142.6 LIMESTONE	132.6 – 142.6 po 3%, f.gr. mag 2%	746	148.5	151.5		×	10	30	×	×	×	
154.1	156.9	2.8			As above 119.0 – 127.1	, rare trace py.	747	151.5	154.5		×	15	20	0.5	×	×	
156.9	157.7	0.8			135.0 Bedding 40°		748	154.5	157.5		×	10	20	×	×	×	
157.7	160.5	2.8			Contact 55°		749	157.5	160.5		×	5	15	×	5	×	
160.5	163.5	3.0		S	142.6 – 145.1 SERPENTINITE.	142.6 – 145.1 No mineralisation	750	160.5	163.5		×	5	25	0.5	×	×	
163.5	166.5	3.0			Pale yellow and green massive	except for 143.7 – 144.3 po 2%, f.gr.	751	163.5	166.5		5	5	50	0.5	×	10	
166.5	169.5	2.8			serpentinite, with bands of remnant	mag 2%.	752	166.5	169.5		×	10	40	×	×	×	
					carbonate												
					143.7 – 144.3 limestone as above												
					132.6 – 142.6.												
					Contact 50°												
				Dol	145.1 – 161.0 DOLOMITE	145.1 – 161.0 1-2% pyrite dissem.											
					Massive coarsely crystalline pale	with black margins around grains.											
					grey dolomite, with minor thin												
					serpentinite stringers.												
					Contact 60°	161.0 – 165.1 po 1-2%, fine grained											
				Lst	161.0 – 168.8 LIMESTONE.	mag 1%.											
					161.0 – 165.1 Grey crystalline lst, with	165.1 – 167.1 po 1-2%, very fine											
					abundant black alteration and minor	grained dissem mag 5-7%.											
					serpentinite along fractures												
				Lst/S	165.1 – 167.1 Black and green altered												
					limestone – mostly serpentinous material												
					with f.gr. dissem. mag throughout, and grey calcite remnants.												

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

SHEET No. 4

TENEMENT NAME TENTH LEGION No. 52M/75

PLAN – MAP REFERENCE

CO-ORDINATES ... AZIMUTH ... DRILLERS ... COMMENCED ... DEPTH ... HOLE No. TLC 7

RL COLLAR ... INCLINATION ... DRILL TYPE ... COMPLETED ... CASING LEFT ... 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 ......) Cu	Pb	Zn	Ag	Sn	W
169.5	172.5	3.0			167.1-168.8 transition zone – segregated white	167.1 - 168.8 trace po, mag 5%		GRIND SAMPLES								
172.5	175.5	3.0			dolomitic carbonates and black material		932753	169.5	172.5		x	10	10	1.0	x	x
175.5	178.5	3.0			as above.		754	172.5	175.5		x	5	15	1.0	x	x
178.5	181.2	2.6			Contact 50°		755	175.5	178.5		5	10	55	0.5	4	x
181.2	184.3	3.1		Dol	168.8 – 185.2 DOLOMITE 40°	168.8 - 177.1 po, py finely dissem 1-2%	756	178.5	181.2		x	5	20	1.0	x	x
184.3	187.4	3.1			Pale grey crystalline massive	177.1 - 177.4 zone with magnetite 30-40%	757	181.2	184.3		x	10	10	1.0	4	x
187.4	190.5	3.1			dolomite, as for 145.1 - 161.0	177.4 - 185.2 po, py finely dissem 1-2%.	758	184.3	187.4		5	10	25	1.0	x	x
190.5	193.5	3.0		?ss/Lst	185.2 – 188.8 Breccia zone – clasts	185.2 - 188.8 Breccia zone – grey	759	187.4	190.5		x	15	25	1.0	x	x
193.5	196.5	3.0			of grey fine grained soft grey	and black breccia clasts with 10%	760	190.5	193.5		x	15	35	1.0	x	x
196.5	199.5	3.0			siltstone in a calcite rich matrix	combined po and magnetite.	761	193.5	196.5		x	10	30	0.5	x	x
199.5	200.1	0.8		Lst	188.8 – 196.3 LIMESTONE	188.8 – 192.1 traces po, py – 1%	762	196.5	200.1		x	15	30	0.5	x	20
					Grey massive limestone – variable	192.1 – 196.3 dark grey rock with traces										
					bands of black serpentinite/mag	dissem mag – prob 1-2%, traces po, py.										
					alteration. 194.7 banding 65°.											
					Contact 45°											
				Lst/S	196.3 – 200.1 SERPENTISED LIMESTONE	196.3 - 200.1 No mineralisation.										
					Yellow and white rock, banded 2mm-1cm											
					scale – the yellow is serpentinite?											
					, with the white patches being almost											
					pure calcite. Medium hard, tough											
					crystalline rock – calc-silicate affinities?											
					199.8 Banding 65°.											
					END OF HOLE 200.1 m.											

850788