063

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

SHEET No. 1

TENEMENT NAME TENTH LEGION No 53M/75

PLAN – MAP REFERENCE TASH 2 TASH 13

CO-ORDINATES 4982.3 N 5261. E AZIMUTH 180° GRID DRILLERS S. RIMAK COMMENCED 7.5.81 DEPTH 163.0m. HOLE No. TLC9

RL COLLAR 249.3m INCLINATION -48.5° DRILL TYPE BOYLES 37 COMPLETED 19.5.81 CASING LEFT NIL DPO No(s) 30105 30106

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	Sn	W	Au	
0.0	1.5	1.4	HQ		0-1.8 Surface rubble - magnetite and													
1.5	2.0	0.3	to 24m		limonite scree.													
2.0	5.0	3.0			1.8- QUARTZITES AND SILTSTONES	1.8-2.5 Yellow soft puggy clay with siltstone												
5.0	8.5	3.5			Yellow-brown weathered impure	frags - highly weathered. No mineralisation.												
8.5	12.0	3.5			quartzite, fine bedding laminations	2.5-7.5 Quartzite beds weak qtz veinlets												
12.0	15.0	3.0			with thin siltstone interbeds.	may have been some py, but now												
15.0	18.0	3.0			3.5 ? Bedding 60°.	leached, bleached, fractured and weathered.												
18.0	21.0	3.0			4.3 Bedding 75°	7.5 - 21.0 Minor qtz veins, pitted, leached												
21.0	23.5	2.5			7.7 Bedding 50°	and weathered.												
23.5	25.5	2.0			9.1 Bedding 45° ; 13.0 Bedding 60°													
25.5	28.5	3.0			Mostly quartzite to 7.5m													
28.5	31.5	2.9			Then mostly siltstones with some thin													
31.5	34.5	3.0			shale laminae and thin qtzite interbeds													
34.5	37.5	2.9			to 14.2													
					14.2-16.7 Massive pinkish brown qtzites													
					16.7-18.5 Siltstones etc as for 7.5-14.2													
					18.5- Thinly bedded f.gr. quartzites	21.0 - 21.6 Epidote - qtz veining at												
					pale grey in places, minor siltstone.	low angles to core, pronounced												
					18.4 Bedding 45°	bleached/brown alteration haloes around												
					24.6 Bedding 70°	veinlets 2-3 mm.												
						21.6 - 30.4 Qtz veins and segregations												
			Change to		30.9-35.6 Breccia zone - qtz-calcite	to 6mm thick, traces py.												
			NQ		-rhodochrosite - py veining to 32.1m.	30.4 - 30.9 Qtz stockwork in breccia	932201	30.4	30.9	0.6	50	25	75	7.5	65	20		
			core 24m		32.1 - 35.6 highly altered, minor veining	zone - py 1-2%, some chlorite	202	30.9	32.1	1.2	25	25	75	2.5	80	x		
			↓		of the above with magnetite rich	Contact 15° 30.9 - 31.35 Vein - qtz, with pink												
					intervals that have been partially	rhodochrosite, greenish chloritic material												
					altered to haematite.	and 10% crystalline py to 5x5mm.												
						Contact 70° 31.6 - 32.1 Vein - calcite-qtz- pink												
						rhodochrosite, and green chloritic												
						material with py in coarse crystals 10%.												

ASSAY VALUES (Analysed by ANALABS)

160288

064

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

SHEET No. 2
TENEMENT NAME TENTH LEGION No 53M/75
PLAN – MAP REFERENCE
CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No. TKC9
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
37·5	40·5	2·9				Contact 65°	932203	32·1	34·5	2·4	200	25	175	5·0	130	30	
40·5	43·5	3·0				32·1 – 34·5 Highly altered and metasomatised rock ? – Chloritic matrix, coarse grained with qtz – rhodochrosite – calcite – py veining as above. Up to 10·5% dissem. f.gr. mag. that has been converted to haematite. Pyrite dissem throughout 5–7%.											
43·5	46·5	3·0															
46·5	49·0	2·5															
49·0	52·5	3·5															
52·5	58·5	6·0															
						Contact 20° → 34·5 – 34·7 Massive chlorite with 30% mag haematite.	204	34·5	35·6	1·1	175	50	800	5·0	95	30	0·025
						Contact 70° → 34·7 – 35·6 Massive chloritic rock with spots of white minerals and 10% mag-haematite.											
					Contact 45°?												
				qs	35·6 – 54·8 ALTERED SILTSTONES? Dark muddy maroon - browns and greeny grey rock, extensively deformed, silicified and altered. Up to 60 cm. patches of remobilised qtz with greyish-white fine grained ?sericite, s histrose fabric, which decrease in size and abundance with depth. 7 cm qtz-carbonate vein on contact	35·6 – 38·3 Py 1-2% as disseminated blebs and in veinlets with qtz.	205	35·6	38·3	2·7	75	×	50	2·5	×	×	
						38·3 – 38·5 White bleached zone with 10% py	206	38·3	38·5	0·2	525	×	50	2·5	×	×	
						38·5 – 39·8 Trace py as interstitial blebs	207	38·5	39·8	1·3	25	×	25	5·0	×	×	
						– no qtz – sericite alteration. 2-3% as thin veinlets.	932306	36·0	THIN SECTION SAMPLE.								
							GRIND SAMPLE										
					39·8 – 44·3 Gradually becomes lighter in colour – pale brown ? sericitic rock, quite well bedded with minor disruption and contortion of beds – originally a clay rich siltstone? 42·4 Bedding 65° 44·3 – 44·7 Mag-chlorite assemblage, massive 44·7 Contact 45°	39·8 – 43·9 Py, po 10% combined as veinlets and dissem in some thin beds < 5 mm.	932784	39·8	43·9		113	24	87	1·1	10	95	
							CUT SAMPLES										
						43·9 – 44·3 Spots of green chlorite and black (?) actinolite in a bleached matrix Py 1-2%	932208	43·9	44·3	0·4	×	×	150	2·5	80	×	×
							932307	43·2	THIN SECTION SAMPLE.								
						44·3 – 44·7 Dissem mag 50%, with chlorite and ? tremolite.	209	44·3	44·7	0·4	×	50	725	2·5	140	×	×

065

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

SHEET No. 3
TENEMENT NAME TENTH LEGION No 53M/15
PLAN – MAP REFERENCE
CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No. T4C9
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
58.5	64.5	6.0			44.7-45.9 Green (chlorite) hornblende, actinolite? alteration; matrix	44.7-45.9 Qtz-epidote veining, trace py	932210	44.7	45.9	1.2	x	25	175	2.5	140	x	0.025
64.5	67.5	3.0			is pink and white, hard and silicified.	45.9-46.6 Mag. dissem. and in veinlets	211	45.9	46.6	0.7	25	x	850	2.5	160	x	x
					45.9-46.6 Black serpentinite with dissem	with dark green serpentinite, 10%-15%											
					mag and sediment inclusions – originally												
					an impure carbonate rich shale?												
					Contact 75° 46.6-47.5 See 44.7-45.9, above	46.6-47.5 Dark green crystalline? hornblende	212	46.6	47.5	0.9	x	x	125	5.0	200	x	0.582
					Contact 55°?, irregular. 47.5-52.9 Pinkish brown and pale	-chlorite – ? actinolite alteration and veining	GRIND	SAMPLES									
					brown qtz-sericite rock. Totally	47.5-52.9 Traces very fine dissem. py.	932785	47.5	50.0		98	13	103	1.3	5	170	
					altered, schistose fabric, disrupted	talcy material on sheared partings.	786	50.0	52.9		49	12	73	0.9	10	110	
					48.8 Bedding 62° and brecciated; some	52.9-54.8 As above 46.6-47.5, less or	CUT	SAMPLES									
					weak bedding visible.	dark green minerals, 1% py in veinlets.	932213	52.9	54.2	1.3	x	50	100	2.5	60	x	x 0.032
					Contact 75°		214	54.2	55.1	0.9	x	50	150	5.0	230	x	0.042 0.008
				M	54.8-85.2 MAGNETITE												
					54.8-55.1 Pale green serpentinised												
					carbonates with 10-15% mag.		932310	56.2m	Mineragraphic	Sample.							
					Contact 70° 55.1-59.1 Massive magnetite with		215	55.1	56.6	1.5	25	75	350	5.0	5350	x	x 0.008
					2-5% interstitial dark green serpentinite		216	56.6	58.1	1.5	x	100	450	5.0	310	x	0.017 0.008
					and traces of white refractory		217	58.1	59.1	1.0	x	50	450	7.5	240	x	0.008
					minerals as small remnant clots.												
					59.1-60.5 Yellow-green serpentinite	59.1-60.5 Trace interstitial pyrite.	218	59.1	60.5	1.4	50	50	525	5.0	700	x	0.008
					with white refractory minerals and												
					magnetite dissem throughout 40%												
					60.5-62.8 Massive mag. with grey and	60.5-62.8 Py dissem throughout, 3%	219	60.5	61.9	1.4	100	50	3250	5.0	1550	x	0.008
					green serpentinite 3-5%.	some Rea interstitial pyrrhotite?	220	61.9	62.8	0.9	250	50	800	5.0	1750	x	0.025 0.008
					62.8-64.1 Black shaly-looking		221	62.8	64.1	1.3	75	25	375	2.5	2600	x	x
					serpentinite with 10-70% dissem mag		932311	63.4m	Mineragraphic	Sample							
					and white speckles and bands												
					of calcite												
					64.1-64.9 Yellow-green serpentinised		222	64.1	64.9	0.8	25	300	625	2.5	210	x	0.008
					refractory residual minerals, with 30%												
					mag dissem in bands and as clasts												

066

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 4

TENEMENT NAME TENTH LEGION No. 58M/15

PLAN – MAP REFERENCE

CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No. T.L.C.9.

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
67·5	70·5	3·0			64·9–65·9 Mag 70%, in dark green serpentinite; trace white calcite.		223	64·9	65·9	1·0	50	100	500	2·5	480	×	0·008
70·5	73·5	3·0															
73·5	76·5	3·0			65·9–67·2 Massive mag 95%; small veinlets grey sep(?), py, mcasite as veinlets in last 30 cm, 20%.	– hard veinlets bluish grey f.gr. material – associated with Sn mineralisation? Present through most of the interval to 72·6 m.	224	65·9	67·2	1·3	150	75	500	2·5	9100	×	0·017 ×
76·5	79·5	3·0					932312	66·1m			Mineragraphic Sample.						
					67·2–67·7 Mag 35% in crystalline white calcite		225	67·2	67·7	0·5	100	75	800	2·5	2250	×	×
					67·7–68·1 Yellow green serpentinised calc silicate minerals, white residual minerals, and py, dissem 5–7%.		226	67·7	68·1	0·4	250	150	3500	2·5	320	×	×
					68·1–70·6 Mag 40–50%, in crystalline white calcite mottled in places with minor green serpentinite. Py 1–2%, patchy.		227	68·1	69·6	1·5	150	25	1450	2·5	2700	×	0·008
							228	69·6	70·6	1·0	175	75	5500	2·5	1400	×	0·008 ×
							932313	70·0			Mineragraphic Sample.						
					70·6–71·65 Mag 60–65% in calcitic gangue which has been partially serpentinised; 1% py; 3–5% sp throughout	Some unusual fine bluish-grey material along fractures – f.gr. mag? with calcite.	229	70·6	71·65	1·05	100	150	1·5%	2·5	2600	×	×
					71·65–72·0 Yellow-green serpentinised carbonates + residual minerals; mag 40%		230	71·65	72·0	0·35	25	200	1925	2·5	310	×	×
					72·0–72·6 Mag 50–60% dissem in grey qtz–carbonate matrix.	trace sp, py.	231	72·0	72·6	0·6	25	175	3025	5·0	2750	×	×
					72·6–73·9 Residual calc silicate minerals and yellowish-green serpentinite alteration; mag dissem 30–40% in places; overall 10–20%, po with grey calc silicates 2–3%, traces py, sp.		232	72·6	73·9	1·3	225	150	5050	2·5	490	×	0·033 ×
					73·9–77·0 Mag 30–40% in a grey and green serpentinite matrix, with white clots of residual carbonates and qtz. Irregularly banded fabric, greyish colour due to incomplete serpentinisation.	py 5–7% as irregular veinlets and stringers	233	73·9	75·5	1·6	475	75	2150	2·5	350	×	×
							234	75·5	77·0	1·5	175	50	2175	2·5	540	×	×

067

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

SHEET No. 5
TENEMENT NAME TENTH LEGION No 63M/75
PLAN – MAP REFERENCE
CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No TLC9
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
79·5	82·1	2.6			77·0 – 78·2 Crystalline mag with dark and	mag 60%, py 1-2%.	932235	77·0	78·2	1·2	175	50	2025	2·5	1600	×	×
82·1	85·0	2·9			pale green seperitite;		932314	78·5 m	Mineragraphic	Sample.							
85·0	88·5	3·0			78·2 – 79·5 Fine grained bluish green mag	py/marcasite 1-2%	236	78·2	79·5	1·3	25	75	1925	×	3750	×	0·050 ×
88·5	91·5	3·0			in a bottle green seperitite matrix some		237	79·5	80·6	1·1	125	25	2600	2·5	1000	×	×
91·5	94·5	3·4			white and brown residual minerals.		238	80·6	82·1	1·5	25	50	2025	2·5	2350	×	×
94·5	97·5	3·0			79·5 – 85·2 Massive crystalline mag.	Weak calcite veins; minor bluish grey	239	82·1	83·4	1·3	150	100	1450	2·5	4100	×	×
97·5	100·5	2·9			90% interstitial green translucent serp.	magnetite/carbonate veining; trace py.	240	83·4	84·4	1·0	50	75	1075	2·5	2400	×	0·017 ×
				ss/sh	Contact 70° 85·2 – 91·2 GREY SILTSTONES/SHALES.	85·2 – 88·1 Carbonate – qtz stockwork	241	84·4	85·2	0·8	50	50	700	2·5	6000	×	×
					Dark grey f.gr. silt rich rock, deformed	, traces py.	242	85·2	86·3	1·1	50	25	9400	2·5	150	×	×
					and brecciated with carbonate veining	88·4 – 91·2	243	86·3	88·1	1·8	25	25	125	×	120	×	×
					and minor pale coloured calc silicate		244	88·1	89·5	1·4	75	325	75	×	×	×	0·017 ×
					intervals		245	89·5	91·2	1·7	75	200	125	2·5	×	×	×
					Contact 40°		GRIND	SAMPLE									
				Cst	91·2 – 95·2 CALC SILICATE ROCK.	91·2-94·4 Broken, slightly weathered	932787	91·2	94·4		81	22	113	1·1	30	100	
					Pale pink and white crystalline	, trace py in stringers with calcite.	CUT	SAMPLES									
					?tremolite rock with patches of	94·4 – 95·2 Epidote 50-60%, vein	932246	94·4	95·2	0·8	25	50	150	5·0	220	×	
					calcite and minor interbeds 0.5m	swarm and dissem. throughout.	932315	84·0 m	Mineragraphic	Sample.							
					of grey siltstone as above.												
					Contact 55°?												
				Css	95·2 – 96·3 CALC SILICATE SKARN	95·2-96·3 f.gr. dissem. mag.	247	95·2	95·5	0·3	175	250	1200	5·0	190	×	
					Grey granular rock with abundant	10-15%, also in crystalline patches	248	95·5	96·3	0·8	200	500	5600	5·0	330	×	0·042
					epidote, some pink Mn silicates	with seperitite; py, po 2-3%.											
					partially seperitised.												
					Contact irregular.												
				M/S	96·3 – 98·0 MAGNETITE/SERPENTINITE.	Mag 50%, traces py as blebs to	249	96·3	98·0	1·7	125	125	400	2·5	80	×	
					Crystalline magnetite with bottle green	6 mm.											
					seperitite and yellowish partially												
					seperitised material.												
					Contact 50°												
				Cst	98·0 – 99·9 CALC SILICATE ROCK	traces pinkish ? garnets, minor	250	98·0	99·9	1·9	25	75	2025	5·0	120	×	
					As above 91·2-95·2 some greenish	patches epidote – chlorite veining.											

0 068

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 6

TENEMENT NAME TENTH LEGION No 53 M/75

PLAN – MAP REFERENCE ....

CO-ORDINATES .... AZIMUTH .... DRILLERS .... COMMENCED .... DEPTH .... HOLE No. TL C9

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)	Cu	Pb	Zn	Ag	Sn	W	Au
100.5	103.5	3.0		Css	99.9–101.2 CALC SILICATE SKARN		932251	99.9	101.2	1.3	25	25	225	2.5	250	×	
03.5	106.5	3.0			Grey crystalline rock, greasy feeling												
106.5	109.5	3.4			soft, talcy and chloritic, minor												
09.5	112.5	3.0			calcite stringers.												
12.5	115.5	3.0			Contact 70°												
				M/S	101.2 – 105.7 MAGNETITE/SERPENTINITE	Patches of brownish interstitial	252	101.2	101.9	0.7	25	50	150	2.5	100	×	0.017
					Crystalline mag 60% in a matrix of	? idocrase, fine calcite veins	253	101.9	102.6	0.7	25	75	250	2.5	50	×	
					bottle green serpentinite, with some	,1-2% py in lower 1.5m.	254	102.6	104.2	1.6	25	50	225	5.0	120	×	
					paler grey-green incompletely serpentinised		255	104.2	104.8	0.6	125	×	6800	2.5	270	×	
					patches. 104.6-104.8 grey-green Css		256	104.8	105.7	0.9	225	50	4800	2.5	80	×	0.100
					Contact ?70°		GRIND SAMPLES										
				Cst	105.7– 106.6 CALC SILICATE ROCK	patches green epidote and dark	932788	105.7	110.2		31	30	118	0.7	35	35	
					Bone coloured f.gr rock with greenish	green ? hornblende											
					epidote veins, and pinkish patches of												
					? idocrase - vesuvianite.												
				qs	106.6 – 110.1 QUARTZ-SERICITE ROCK	Weak trace pyrite, in small											
					Pinkish brown, grey and cream highly	stringers.											
					altered ? sedimentary rock. Finely												
					banded (? bedding), disrupted and												
					contorted with qtz segregations and												
					pale buff coloured ? sericite rich												
					patches to 10 cm.												
					Contact ?60°		CUT SAMPLES										
				M	110.1 – 112.0 MAGNETITE	110.1-111.2 Mag 30-40%, sp 1-2%; py	932257	110.2	112.0	1.8	275	500	1.58%	2.5	220	×	
					Black crystalline mag., in a yellowish	1-2% in yellowish green matrix.											
					green partially serpentinised matrix of	111.2-111.5 f.gr mag 10%, sp 2%, py <1% in hard											
					hard grey calc-silicate material.	grey matrix											
					Contact 70°	111.5-112.0 As above 110.1-111.2.											
				Css	112.0 – 113.8 CALC SILICATE SKARN	112.0-113.8 Mottled grey due to finely	258	112.0	112.7	0.7	25	50	1750	×	100	×	
					Hard grey massive fibrous tremolite	dissem. chloritic and serpentinite alteration	259	112.7	113.8	1.1	50	25	2825	×	170	×	
					-actinolite, weak black serpentinite veining	1-2% dissem py, weak trace sp.											

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 7

TENEMENT NAME TENTH LEGION No 53M/75

PLAN – MAP REFERENCE

CO-ORDINATES .... AZIMUTH .... DRILLERS .... COMMENCED .... DEPTH .... HOLE No. TLC9.

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	
15.5	118.5	3.0		S/M	113.8 – 115.4 SERPENTINITE WITH MAGNETITE.	113.8 – 114.8 Sphalerite 20%, coarsely	932260	113.8	114.8	1.0	550	25	14.1%	x	180	x	0.017	
118.5	121.2	2.7			Dark green serpentinite, with dissem mag	crystalline and intergrown with magnetite												
121.2	124.0	2.7			15-20% and abundant sphalerite.	, py 1-2% dissem throughout.												
24.0	127.0	3.0			Some minor grey calc-silicate interbeds at	114.8 – 115.4 Mag 10-15%, sp 1-2%, in dark	261	114.8	115.4	0.6	75	75	2525	x	130	x		
127.0	129.9	2.9			base of interval.	green serpentinite. Transition zone to next r. type.												
129.9	133.0	3.1			Contact ? 65°	– overall only 50% mag-serp in interval.	GRIND SAMPLES											
33.0	136.0	3.0		ss	115.4 – 116.2 SILTSTONES		932789	115.4	118.1		15	21	89	0.4	35	15		
					Brown hard hornfelsed sediment, disrupted	Weak trace pyrite as thin stringers												
					and contorted, with some greened calc-silicate													
					patches to 2x1 cm.													
				Cst/Css	116.2 – 135.6 CALC SILICATE ROCK	116.2 – 118.1 Weak epidote-qtz veining.	CUT SAMPLES											
					White and pink rock, exceedingly	118.1 – 119.4 Stockwork of dark greeny grey	932262	118.1	119.4	1.3	25	250	1000	x	30	x		
					altered, with minor greenish (diopside?)	chloritic alteration – no obvious min.												
					patches. The pink mineral is ? Mn	119.4 – 121.2 As above 116.2 – 118.1	263	119.4	121.2	1.8	25	125	600	x	15	x		
					silicate (rhodonite?). Crudely banded													
					structure – alteration has proceeded along													
					brecciation fractures. Bedding is recognisable													
					but not measurable – too brecciated.													
					Contact 70° 121.2 – 122.2 Dark green chlorite-serpentinite	121.2 – 122.2 Mag 1-2%, py-marcasite 2-3%	264	121.2	122.2	1.0	200	75	625	x	25	x	0.017	
					zone.	, trace sp.												
					122.2 – 135.6 Rock becomes more greyish	122.2 – 124.7 Po 2-3%, mag 1%, py 1%	265	122.2	123.1	0.9	175	x	575	x	45	x		
					green and massive – pink Mn minerals	associated with green sep. alteration in	266	123.1	124.7	1.6	25	25	300	2.5	45	x		
					disappear. – tremolite – diopside assemblage?	small clots to 2x1 cm throughout the												
						rock.												
						124.7 – 126.5 Epidote stockwork 10%, minor	267	124.7	126.5	1.8	25	25	150	x	80	x		
						garnets.												
						126.5 – 135.6 Weak veinlets epidote and	268	126.5	127.7	1.2	25	50	150	x	50	x	x	
					Contact ≑60°	rare pinkish garnets.	269	127.7	128.5	0.8	25	25	75	x	15	x		
				q.s	135.6 – 136.5 ALTERED SILTSTONE/CHERT	135.6 – 136.5	932790	128.5	131.4		11	65	139	0.3	50	x		} GRIND
					Brown and white finely bedded altered		791	131.4	134.4		6	43	75	0.4	65	x		SAMPLES
					sediment – segregations of qtz, sericite in discrete bands to 5mm		792	134.4	137.4		31	21	90	0.4	9	15		

070

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET No. 8

TENEMENT NAME TENTH LEGION No. 53M/75

PLAN – MAP REFERENCE

CO-ORDINATES | AZIMUTH | DRILLERS | COMMENCED | DEPTH | HOLE No. TLC9

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)	Cu	Pb	Zn	Ag	Sn	W	Au
136.0	137.7	1.7		Cst	136.5–137.4 CALC SILICATE ROCK												
137.7	139.5	1.8			As above 116.2–135.6		CUT SAMPLES										
139.5	142.5	3.0		Css	137.4–139.8 CALC SILICATE SKARN	137.4–139.8 Mag 15–20%, po 1–2%	932270	137.4	138.7	1.3	25	x	850	x	70	x	
142.5	145.5	2.9			Grey mottled siliceous tremolite rock, with	, trace py; in veinlets with black serp.	271	138.7	139.8	1.1	50	50	2625	x	120	x	
145.5	148.5	2.9			mag-serpentinite banding and a stockwork												
148.5	151.3	2.8			of mag-po veinlets.												
151.3	154.5	3.2			Contact 75°												
154.5	157.4	2.9		M/S	139.8–141.3 MAGNETITE	139.8–141.3 Mag 30–40%,	272	139.8	141.3	1.5	75	50	475	x	25	x	0.008
157.4	160.5	3.1			Black crystalline mag, finely banded and												
160.5	163.0	2.5			in blebs to 5x3cm, in a matrix of yellow												
					-green serpentinised calc silicate rock.												
					Contact 70°												
				Css	141.3–145.0 CALC SILICATE SKARN	141.3–141.8 Py 1–2%, mag 1–2%, very	273	141.3	141.8	0.8	125	x	4600	x	360	x	
					As above 137.4–139.8.	finely dissem.											
						141.8–142.1 Mag 50%, py 1–2%, in serp.	274	141.8	142.1	0.3	400	25	350	x	x	x	
						142.1–142.7 Mag 2–3% in veinlets.	275	142.1	142.7	0.6	25	25	100	x	20	x	
						142.7–143.1 Mag 10–15%, py veinlets 1–2%	276	142.7	143.1	0.4	25	25	850	x	40	x	0.017
						143.1–143.9 Py 1%, mag 1–2%, dissem.	277	143.1	143.9	0.8	25	x	2150	x	130	x	
					Contact Gradual and Transitional	143.9–145.0 Mag dissem in 2mm irregular	278	143.9	145.0	1.1	25	25	1775	2.5	130	x	
				qs	145.0–163.0 QUARTZ SERICITE ROCK	bands, 15%–20%, trace py, po, sp.	GRIND SAMPLES										
					Gradual change from grey-green	145.0–161.7 Weak epidote-qtz veining	932793	145.0	148.2		50	19	103	0.6	x	25	
					massive calc silicate rock to a pinkish	, minor dark green-grey ?chloritic	794	148.2	151.0		53	20	108	0.9	6	65	
					brown siltstone interbedded with a	alteration. Traces py, marcasite, rare po	795	151.0	154.0		72	85	160	1.3	10	75	
					white and grey recrystallised weakly	as irregular blebs to 3x7mm.	796	154.0	157.0		69	15	101	1.0	6	110	
					schistose quartz-sericite rock (originally	Weak calcite-serpentinite veinlets.	797	157.0	159.9		65	15	82	0.9	3	65	
					an impure qtzite?). Crudely foliated	161.7–162.4 Greenish bleached zone	798	159.9	163.0		141	19	63	0.6	60	620	
					60–70° LCA, sericitic matrix with grey	with py/marcasite 10–15%, and one											
					and white qtz segregations to 2cm x 1cm.	large ? wolframite crystal at 161.8m.											
						162.4–163.0 As above, 145.0–161.7.											
					END OF HOLE 163.0M.												