

049

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

SHEET No. 1

TENEMENT NAME TENTH LEGION No 54M/75

PLAN - MAP REFERENCE TASH 2, TASH 18

CO-ORDINATES 4273.19N 5630.54E AZIMUTH 210° GRID DRILLERS S RIMAK COMMENCED 31.3.81 DEPTH 208.5m HOLE No. TLC6
 RL COLLAR 260.15m INCLINATION -50° DRILL TYPE BOYLES 37 COMPLETED 10.4.81 CASING LEFT NIL DPO No(s) 26670, 26671, 26672

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 ANALABS...) GRINDS: ZINC CORP/COMLAB									
From (M)	To (M)										Cu	Pb	Zn	Ag	Sn	W	Au			
0.3	4.4	4.1	NG	NC	TRICONED TO 0.3M - NO CORE		877798	0.3	1.6	1.3	x	10	500	x	25	x				
4.4	7.5	3.0	to	S/M	0.3-2.05 SERPENTINITE WITH MAGNETITE.		799	1.6	2.05	0.45	x	10	750	x	30	x				
7.5	10.5	2.8	77.4m		Yellow and green serpentinite, with grey rounded patches of talc throughout 20% and 80% magnetite. Mottled random fabric - the talc appears to be almost interstitial.		800	2.05	4.30	2.25	x	5	410	x	15	x	0.017			
10.5	13.5	3.0					932001	4.3	5.9	1.6	x	10	190	x	15	15				
13.5	16.5	3.0					002	5.9	7.2	1.3	x	20	280	x	5	x				
16.5	19.5	3.0					003	7.2	8.4	1.2	x	20	225	x	10	20				
19.5	22.5	2.8			Gradual change:		004	8.4	9.0	0.6	5	15	205	x	9	15	0.017			
22.5	25.5	2.9		lst/M	2.05-17.7 LIMESTONE WITH MAGNETITE	2.05-8.35 Mag 10-15% in fine grained irregular bands, small patch of haematite at 4.4 m	005	9.0	10.4	1.4	x	80	270	0.5	60	35	x			
25.5	28.5	3.0			Mottled grey and white rock - white calcite, coarsely crystalline, with bands and swaths of serpentinite alteration and/or fine grained magnetite rich bands. Yellowish and partially altered to bromolite/serpentine in places.		932006	10.4	11.0	0.6	x	40	445	x	170	50	x			
28.5	31.4	2.9					007	11.0	12.2	1.2	x	20	160	x	15	x	x			
31.4	34.5	3.1					008	12.2	13.2	1.0	x	15	170	x	10	x	1.34			
							009	13.2	14.6	1.4	10	25	185	x	5	10	x			
							010	14.6	16.2	1.6	40	30	45	0.5	6	x	x			
							011	16.2	17.7	1.5	5	15	200	x	9	x	x			
							012	17.7	18.9	1.2	20	75	420	0.5	30	15	0.10			
							013	18.9	19.5	0.6	10	50	670	x	30	10				
							014	19.5	21.0	1.5	x	20	190	x	20	10				
							015	21.0	22.5	1.5	x	25	300	x	20	10				
							016	22.5	23.9	1.4	5	20	545	x	15	15	x			
							017	23.9	25.4	1.5	5	25	560	x	15	x				
							018	25.4	26.2	0.8	5	10	250	x	40	10				
							019	26.2	27.1	0.9	30	100	270	x	30	20				
							020	27.1	27.9	0.8	115	335	450	x	35	x	x			
							021	27.9	29.6	1.7	15	20	370	x	30	x				
							022	29.6	30.9	1.3	20	170	515	0.5	30	x				
							932033	30.9	32.3	1.4	10	190	655	x	30	x				
							034	32.3	33.2	0.9	125	230	1800	x	x	x				
							035	33.2	34.3	1.1	60	85	640	x	20	15				
							036	34.3	35.8	1.5	25	50	250	x	8	x	x			
							037	35.8	36.7	0.9	10	30	215	x	8	20				
							038	36.7	38.2	1.5	75	40	385	x	15	15				

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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.....)									
From (M)	To (M)										Cu	Pb	Zn	Ag	Sn	W	Au			
34.5	37.0	2.5	NQ	CSS/M	Contact 40° 32.3-33.2 CALC SILICATE SKARN ROCK	Mag 25-35%	932039	38.2	39.6	1.4	20	20	190	x	15	20				
37.0	40.5	3.5	to 77.4		Grey fibrous tremolite, heavily impregnated with magnetite and with blebs of hauchest		040	39.6	40.6	1.0	10	50	325	x	20	15	x			
40.5	43.3	2.8			green serpentine.		041	40.6	42.0	1.4	55	65	265	x	20	x				
43.3	46.1	2.7			Contact 60°		042	42.0	42.9	0.9	30	45	235	0.5	15	x				
46.1	49.2	3.2			33.2-40.6 SERPENTINITE WITH MAGNETITE	33.2-34.3 f.g. mag 30% in a grey	043	42.9	44.5	1.6	45	45	150	0.5	15	x				
49.2	52.5	3.3		S/M	Dark green serpentine with approx 50% mag dissem. throughout, and small white 2mm clots of refractory minerals from serpentinisation.	34.3-35.8 Mag 30%-35% 35.8-36.7 Mag 10%	044	44.5	45.2	0.7	85	50	160	x	10	10	x			
52.5	55.5	3.0			partially serpentinised gangue.		045	45.2	46.4	1.2	5	10	100	x	10	x				
55.5	58.5	2.6			36.7-40.6 Mag 50-60%, appears to be brecciated in lower 1.1 m. 1% pyrite		046	46.4	48.1	1.7	x	15	110	x	20	x				
58.5	61.5	3.0			Contact 35°		047	48.1	49.1	1.0	20	10	75	x	x	x				
61.5	64.5	2.9			40.6-44.2 CALC SILICATE WITH MAGNETITE	40.6-41.1 Mag 10-15%	048	49.1	50.1	1.0	35	20	115	x	15	x	0.008			
64.5	67.5	3.0			Hard yellowish grey calc silicate (skarn) tremolite rock, with serpentinised intervals, and pervasive fine veinlets and stringers of yellowish green serpentine. Magnetite occurs throughout, as bands, fine stringers or finely disseminated. Contact irregular.	41.1-42.0 Mag 40% 42.0-42.9 Mag 30% in olive green serpentine 42.9-44.2 Alternating 20-50cm bands of mag 40-50% in either soap or calc silicate with bands of barren calc silicates, average 20-25%	049	50.1	51.1	1.0	x	95	555	x	15	x				
					44.2-48.1 CALC SILICATE SKARN	44.2-48.1 Mag 1-2%, locally 5-10% for a few cm.	050	51.1	52.1	1.0	x	25	140	x	5	x				
					Irregularly banded massive grey tremolite rock with minor dissem. mag (2-5%) associated with dark green-grey alteration.		051	52.1	52.8	0.7	x	20	140	0.5	20	x				
					48.1-49.1 Mag 10-15%		052	52.8	53.5	0.7	x	165	430	0.5	60	x	0.008			
					49.1-50.1 Mag 25-35%		053	53.5	54.8	1.3	x	180	870	0.5	65	20				
					50.1-52.2 Mag 2-3%, finely dissem. in altered chloritic rock.		054	54.8	55.5	0.7	x	130	440	x	30	x				
					52.2-54.8 Calc silicate rock	52.2-54.8 Epidote - gte veins 15-20%	055	55.5	56.7	1.2	5	610	935	1.0	110	490				
					Green and white highly altered bone coloured fine grained rock with pink Mn silicates and abundant epidote.	54.8-55.5 Minor epidote - gte veins. 55.5-59.3 Epidote up to 40% of rock, with gte and some black chloritic material.	056	56.7	58.0	1.3	x	65	545	0.5	70	x	x			
					Contact 50°		057	58.0	58.6	0.6	x	110	290	0.5	100	x				
					52.2-62.7 CALC SILICATE SKARN	44.2-48.1 Mag 1-2%, locally 5-10% for a few cm.	058	58.6	60.2	1.6	10	100	300	0.5	120	x				
					Irregularly banded massive grey tremolite rock with minor dissem. mag (2-5%) associated with dark green-grey alteration.		059	60.2	61.0	0.8	45	1100	6900	2.0	15	200				
					50.1-52.2 Mag 2-3%, finely dissem. in altered chloritic rock.		060	61.0	62.1	1.1	210	1350	2950	2.0	25	30	0.033			
					52.2-62.7 CALC SILICATE SKARN	48.1-49.1 Mag 10-15%	061	62.1	62.7	0.6	410	40	155	0.5	20	x				

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DRILL CORE LOG

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.....)						
From (M)	To (M)										Cu	Pb	Zn	Ag	Sn	W	Au
67.5	70.5	2.8	NQ to		65.3 Banding 65°	59.3-60.2 Barren, minor qtz-calcite stringers	932023	62.7	64.0	1.3	275	15	190	x	10	x	
70.5	73.5	2.8	77.4			60.2-60.4 Mag 40%	024	64.0	65.1	1.1	455	30	135	x	8	x	0.092
73.5	76.5	3.0				60.4-62.7 Mag, dissem 2-3%, assoc. with	025	65.1	65.9	0.8	180	15	120	x	20	x	
76.5	79.5	3.0			Contact irregular.	pale green cherts of serpentinous alteration.	026	65.9	66.4	0.5	255	30	165	x	10	x	
79.5	82.5	2.9		S/M	62.7-71.2 SERPENTINITE WITH MAGNETITE	62.7-64.0 Mag 15%, finely dissem; py 2-3%	027	66.4	67.9	1.5	65	10	110	x	35	x	
82.5	85.0	2.4			Dark green-grey and bottle green	as large blebs.	028	67.9	69.7	0.8	100	20	220	x	25	x	0.025
85.0	88.5	3.3			serpentine with dissem mag. in bands	64.0-65.1 finely dissem mag 28-30%	029	69.7	71.2	1.5	65	5	140	x	25	x	
88.5	91.5	3.0			and irregular patches. Rare grey	py 1%.	030	71.2	72.5	1.3	60	25	170	x	20	x	
					patches of incompletely serpentinised calc-	65.1-71.2 mag 40-50%, banded, traces	031	72.5	72.9	0.4	30	5	70	x	20	20	
					silicate rock.	py. 67.9-71.2 mag 60%.	032	72.9	74.0	1.1	155	5	110	x	30	x	x
				M/S	71.2-74.7 MAGNETITE WITH SERPENTINITE	71.2-72.5 mag 70-80%, massive and	932062	74.0	74.7	0.7	1150	20	45	0.5	10	x	
					As above mag > serp.	crystalline, coarse granular texture, py-2%	063	74.7	75.5	0.8	85	75	70	x	6	x	
						72.5-72.9 White calc-silicate rock, with mag	064	75.5	75.8	0.3	65	20	130	0.5	15	x	0.017
						85-20%	065	75.8	77.5	1.7	15	230	750	0.5	30	x	
						72.9-74.0 Mag 70%, py 2-3%, little	066	77.5	78.0	0.5	25	35	65	0.5	65	180	
						grey talc.	067	78.0	78.9	0.9	15	15	45	x	20	x	
					74.5 Banding 55°	74.0-74.7 Transition zone - banded mag	068	78.9	79.8	0.9	15	25	75	x	45	20	x
					74.7 Contact 50°	10-15% py 10%, po 2-3%, serp decreases	069	79.8	81.1	1.3	650	135	365	65	45	320	
			BQ	CSS	74.7-83.6 CALC SILICATE SKARN ROCK	74.7-75.5 White barren refractory rock	070	81.1	82.1	1.0	1550	120	330	1.5	20	x	
			77.4		Gray and green crystalline massive rock	(? magnesite)	071	82.1	83.6	1.5	55	35	75	0.5	60	x	
			-2095		-tremolite-diopside, with green epidote	75.5-75.8 black serpentine with mag. 30%	072	83.6	85.1	1.5	75	15	140	0.5	15	x	0.008
					rich patches with garnets, then virtually		073	85.1	86.9	1.8	35	25	210	0.5	30	25	
					a massive green (diopside+epidote?)	77.5-78.0 Epidote-gtz rock with 20% brown	074	86.9	88.3	1.4	10	10	205	x	20	25	
					rock with white barren qtz	garnets.	075	88.3	89.4	1.1	10	20	345	0.5	20	x	
					segregations from 78.0-79.8	79-81.1 Epidote-gtz rock with 20% garnet.	076	89.4	90.5	1.1	385	15	270	0.5	30	30	x
						81.1-82.1 Magnetite 40%; po 20%, py 1-2%											
					Contact irregular	with black serp 20%.											
				M/S	83.6-90.5 MAGNETITE with SERPENTINITE	83.6-85.1 Mag 70-80%, trace py.											
					Black crystalline mag 50% in a matrix	85.1-90.5 Mag 40%, trace py.											
					of almost black serp; minor calcite												

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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.....)									
From (M)	To (M)										Cu	Pb	Zn	Ag	Sn	W	Au			
91.5	94.5	3.0		Lst	Contact irregular.															
91.5	94.5	3.0		Lst	90.5-143.6 LIMESTONE.	90.5-90.9 py, po 60% of rock as massive aggregates	932077	90.5	90.9	0.4	1700	65	95	1.0	X	X				
94.5	97.5	3.0			Grey limestone, recrystallised, and with a brecciated fabric, marked by	90.9-92.6 Fine gr mag 5-7%, py, po in	078	90.9	92.6	1.7	165	25	175	0.5	X	X				
97.5	100.5	3.0			fine black bands of recrystallised	veinlets and disse. 2-3%	079	92.6	93.2	0.6	950	125	765	0.5	7	X				
100.5	103.5	3.0			magnetite. Veins of green and black	92.6-93.2 Mag 5-7%, po in 2-3cm bands	080	93.2	94.8	1.6	40	35	135	0.5	6	X	0.008			
103.5	106.5	3.0			serpentine alteration permeates the	10%; py 1-2%	GRIND													
106.5	109.5	3.0			rock up to 1 cm thick - 5%	93.2-97.7 Mag 2-3%, po, py 5-7% in	869981	94.8	97.7		10	33	122	1	4	10				
109.5	112.5	3.0			Green serpentine decreases with depth	thin veinlets and finely disse. Some	982	97.7	100.7		5	36	96	1	<4	10				
112.5	115.5	3.0			becomes rare after 96m approx.	bands to 5cm thick py or po.	983	100.7	106.6		7	32	81	1	<4	<10				
115.5	118.5	3.0			109.7 Banding 80°	99.7-103.0 Mag 5-7%, py, po 1-2%.	984	106.6	109.6		5	31	110	1	<4	<10				
118.5	121.5	3.0			124.0 Banding 65°	locally 2-5% or a few m.	985	109.6	113.4		6	26	57	<1	<4	<10				
121.5	124.5	3.0			136.6 " 80°	103.0-106.0 Py 10%; po 2-3% in	CUT													
124.5	127.5	3.0				discrete bands to 2cm thick, trace mag	932081	103.0	103.6	0.6	10	30	150	0.5	X	X				
127.5	130.5	3.0			111.1-111.7 Calc silicate rock - pale	106.0-111.7 Po, Py disse as discrete	082	103.6	104.3	0.7	5	15	30	0.5	10	X				
130.5	133.5	3.0			base coloured fig. tremolite rock (Cst)	blabs along black alteration paths	083	104.3	105.0	0.7	15	65	185	1.0	3	X				
133.5	136.5	3.0				mag diminishes to 2-3%. Total 5-7%	084	105.0	106.0	1.0	15	110	190	1.5	4	X	X			
136.5	139.5	3.0			111.7-122.2 Spacing and intensity of	111.7-122.2 As above 111.1-122.2, gradually	085	111.1	111.7	0.6	25	15	75	0.5	4	X				
139.5	142.5	3.0			black alteration/segregation becomes	diminishes.	086	111.7	112.1	0.4	35	20	3650	0.5	X	15				
142.5	145.5	3.0			variable - some patches slightly serpentine	122.2-137.1 Traces po, py as discrete	GRIND													
145.5	148.5	2.9			rich, others more graphitic. Mag	blabs. Mag? possibly 1%, associated	869986	113.4	116.3		6	27	74	1	<4	10				
					decreases, slightly more po.	with pale green serpentine alteration.	987	116.3	119.0		7	30	50	1	<4	10				
					122.2-137.1 More massive, only weakly	137.1- mag 2-5%, very finely	988	119.0	122.2		6	39	72	1	<4	<10				
					foliated gray marble, gradually becomes	dissem. associated with serp, graphitic	989	122.2	125.2		3	28	29	1	<4	<10				
					more altered, with distinct serpentine	lms. po, py 1%, thin stringers and blabs.	990	125.2	128.1		2	28	36	1	<4	10				
					zones etc form 137m approx.		991	128.1	131.1		2	32	50	1	4	<10				
					137.1-143.6 As above 90.5-96m.		992	131.1	134.1		1	26	44	1	<4	<10				
					ss/Dol 143.6-145.9 SILTSTONES/DOLOMITES	143.6-145.9 - No obvious mineralization	993	134.1	137.1		2	28	62	1	<4	<10				
					Thinly bedded brown silty rock with		994	137.1	140.1		4	24	81	<1	<4	<10				
					serpentine alteration, some gte segregations		995	140.1	143.1		2	29	158	<1	<4	10				
					and white recrystallised dolomitic		996	143.1	145.9		18	28	137	<1	<4	20				
					carbonate bedding 70-80°.		997	145.9	149.1		3	36	50	1	4	<10				
							998	149.1	151.9		2	25	56	1	4	<10				

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

TENEMENT NAME TENTH REGION No. 54/175

PLAN - MAP REFERENCE

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. T.L.C.6.

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

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.....)																												
From (M)	To (M)										Cu	Pb	Zn	Ag	Sn	W	As																						
Contract 75°																																							
148.5	151.5	3.0		Lst	145.9-147.1 LIMESTONE	145.9-147.1 trace py, po as dissem.	869999	151.9	154.9		1	24	56	<1	<4	<10																							
151.5	154.5	3.0			As above 90.5-143.6	6lbs	870000	154.9	156.4		1	24	69	1	4	<10																							
154.5	157.5	3.0		Dol/S.	147.1-149.0 SERPENTINISED DOLOMITE	147.1-149.0 No Mineralisation	CUT SAMPLES																																
157.5	160.5	3.0			Brilliant white dolomitic carbonate with		932087	156.4	158.1	1.7	5	10	55	x	x	x																							
160.5	163.5	3.0			minor calcite and qtz, strikingly interbanded		088	158.1	160.0	1.9	5	10	50	x	x	x	x																						
163.5	166.5	3.0			with yellow and green serpentine (50-60%)		089	160.0	161.4	1.4	10	10	35	0.5	x	x																							
166.5	169.3	2.9			Contract 80°		090	161.4	162.5	1.1	10	10	40	x	x	x																							
169.3	172.5	3.0		Lst	149.0-156.4 LIMESTONE	149.0-156.4 Py, Po 5-7%, mag 2-3%	091	162.5	164.4	1.9	5	20	45	0.5	x	x																							
172.5	175.5	3.2			As above 90.5-143.6 m, partially	along black alteration paths.	092	164.4	166.2	1.8	5	15	55	0.5	x	x	x																						
175.5	178.5	3.0			dolomitic - does not react quickly to acid	156.4-160.0 - Trace py, po	093	166.2	167.0	0.8	5	15	30	x	x	x																							
178.5	181.5	3.0		Dol	156.4-178.9 DOLOMITE	160.0-162.5 py 2-3%, trace po.	094	167.0	168.2	1.2	5	10	25	x	x	x																							
181.5	184.5	3.0			Massive grey dolomitic carbonate	f.g. mag 1-2%.	095	168.2	169.2	1.0	5	10	25	x	x	x																							
184.5	187.5	3.0			with minor calcite - same in hand	162.5-164.4 py 1-2%, po 1%, mag 2-3%	096	169.2	170.2	1.0	5	10	25	x	x	x	x																						
187.5	190.5	3.0			specimen as the above.	164.4-168.2 po 1%, mag 5-7%.	097	170.2	172.1	1.9	5	15	20	x	x	x																							
190.5	193.5	3.0			gradual change. 178.9 - LIMESTONE	trace py.	098	172.1	173.4	1.3	5	15	40	x	x	x																							
193.5	196.5	3.0			See 149.0-156.4 for description	168.2-173.4 f.g. mag 1%, trace po, py	099	173.4	174.9	1.5	10	20	150	0.5	5	x																							
196.5	199.5	3.0				173.4-174.9 po, py 10-15%, trace mag.	100	174.9	176.5	1.6	5	10	50	x	x	x	x																						
199.5	202.5	3.0				174.9-176.5 1% po, 2-3% f.g. mag.	101	176.5	177.5	1.0	10	15	105	0.8	x	x																							
202.5	205.5	3.0				176.5-177.5 po 2-3%; mag 2-3%; py 1%	102	177.5	177.9	0.4	10	15	95	0.5	x	x																							
205.5	208.5	2.8				177.5-177.9 Serpentinised and altered	932701	177.9	182.3	1.0	1	7	45	<1	6	<10																							
						mag 7%.	702	182.3	185.3					<1	8	41	2	<4	<10																				
					182.0 - 189.5 Serpentinised - 30-40%	177.9-182.0 mag 3-5%; po 1-2%; trace py	703	185.3	188.3					<1	12	51	2	<4	<10																				
					green and yellow brown pervasive	182.0-189.5 Mag 1-2%, trace po	704	188.3	191.2					2	5	58	1	<4	10																				
					serpentine alteration.		705	191.2	194.3					2	2	38	1	<4	<10																				
					189.5-202.6 Grey partially recrystallised	189.5-202.6 trace po, 1-2% mag on	706	194.3	197.2					<1	4	58	1	<4	<10																				
					and altered 1st - black and green	margins of alteration zones around	707	197.2	200.2					<1	1	44	2	<4	<10																				
					alteration along 2-3mm breccia fractures	fractures.	708	200.2	202.6					<1	5	49	1	<4	<10																				
					(widely spaced cm - cm.)	202.6-206.0 traces dissem mag, po.	932103	202.6	203.6	1.0	5	15	65	x	x	x																							
					202.6-208.5 As for 156.4-178.9	206.0-208.5 Mag dissem 2-3%, po	104	203.6	205.1	1.5	10	15	35	0.5	x	x	x																						
					-partially dolomitic in places.	2-3%.	105	205.1	207.0	1.9	5	10	65	x	x	x																							
					END OF HOLE 208.5m		106	207.0	208.5	1.5	5	15	35	x	5	x																							

GRIND SAMPLE
207.0
207.1